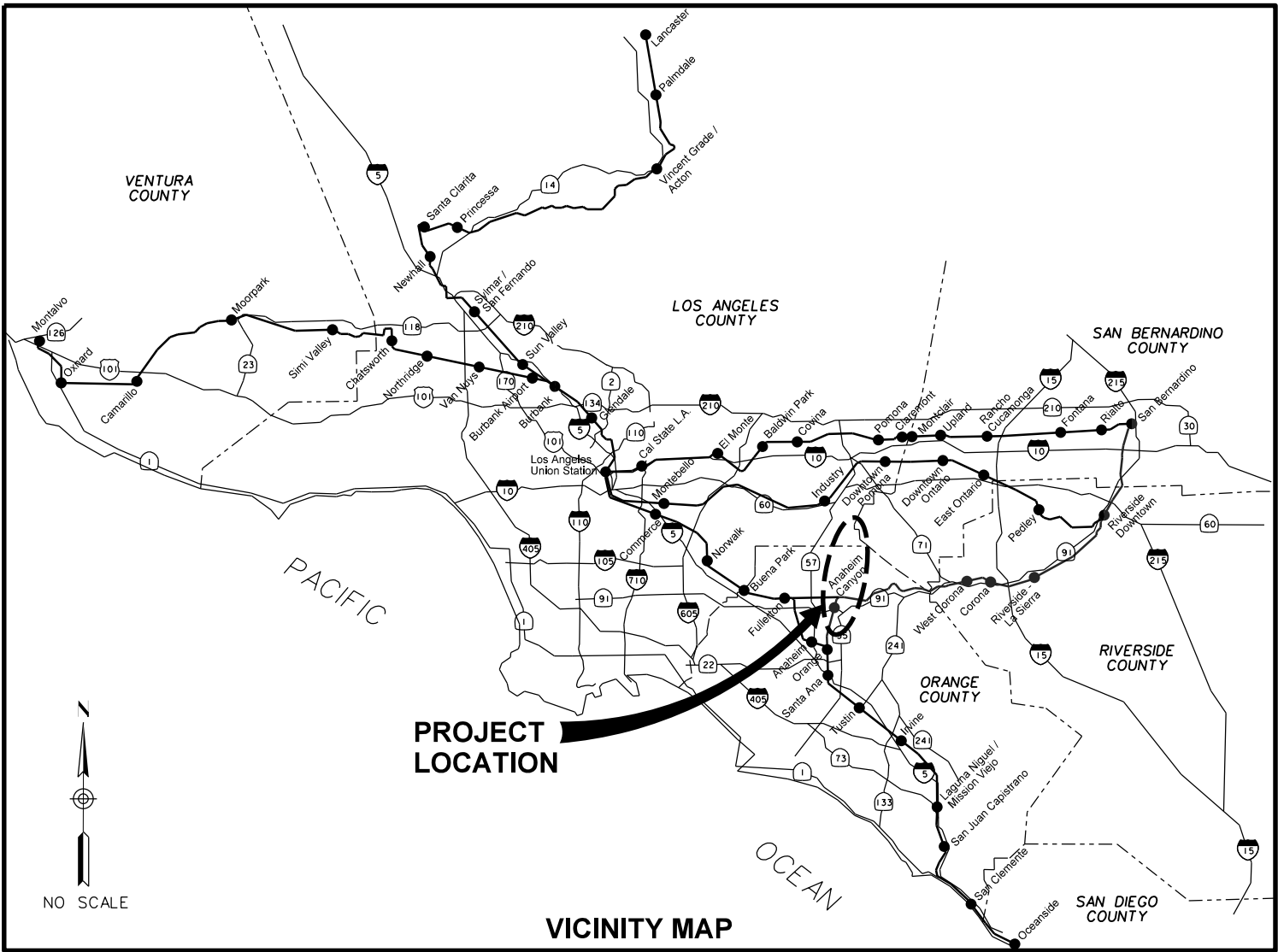




# SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY

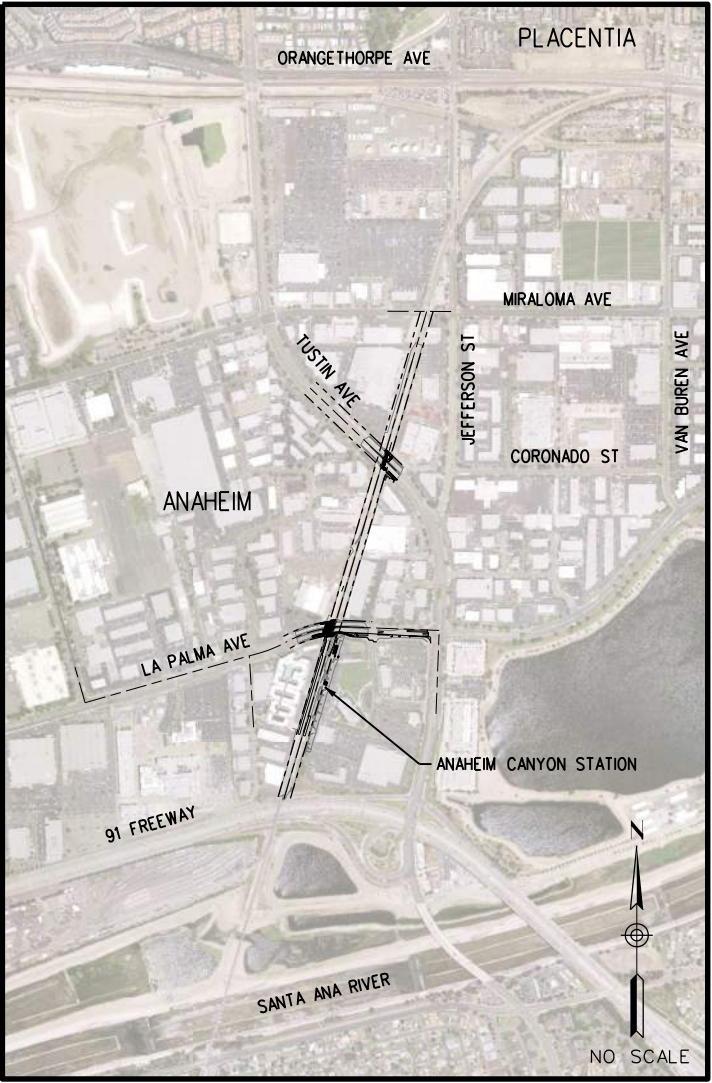
## ANAHEIM CANYON METROLINK STATION PROJECT



JANUARY 20, 2017

30% SUBMITTAL  
NOT FOR CONSTRUCTION

CONTRACT No. C-4-1977



**METROLINK®**

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
LORA CROSS, P.M.P.  
OCTA PROJECT MANAGER

SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ANDREW W. SOKOL, P.E.  
PROJECT MANAGER



ORANGE COUNTY  
TRANSPORTATION  
AUTHORITY











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## TRACK

|  |   |
|--|---|
|  | PROPOSED TRACK                                    |
|  | EXISTING TRACK                                    |
|  | PROPOSED POINT OF SWITCH (POWER-OPERATED TURNOUT) |
|  | EXISTING POINT OF SWITCH (HAND-THROW TURNOUT)     |
|  | OCTA RIGHT-OF-WAY                                 |
|  | PROPOSED LIMIT OF GRADING                         |
|  | TRACK SIGNAL                                      |
|  | SIGNAL HOUSE                                      |
|  | GRAVITY BLOCK RETAINING WALL                      |

## SURVEY

|  |                     |
|--|---------------------|
|  | POWER POLE          |
|  | GUY ANCHOR          |
|  | LIGHT POLE          |
|  | SIGN                |
|  | RAILROAD GATE       |
|  | TEST PIT            |
|  | GAS VALVE           |
|  | WATER VALVE         |
|  | TREE                |
|  | DIAMETER            |
|  | PALM TREE           |
|  | CONTROL POINT       |
|  | MANHOLE             |
|  | FIRE HYDRANT        |
|  | INTERMEDIATE SIGNAL |

## ARCHITECTURAL

|  |  |
|--|--|
|  | ACCESSIBLE PATH OF TRAVEL                                      |
|  | SINGLE LUMINAIRE   |
|  | BACK TO BACK LUMINAIRE   |
|  | TRASH RECEPTACLE   |
|  | BENCH  |
|  | TVM - TICKET VENDING MACHINE (TRIANGLE DENOTES FRONT OF EQUIP) |
|  | SIGNAGE (SEE METROLINK SIGNAGE STANDARDS)                      |
|  | 4 FT HIGH ORNAMENTAL FENCE                                     |
|  | 6 FT HIGH ORNAMENTAL FENCE                                     |
|  | 4 FT HIGH WIREMESH FENCE                                       |
|  | 6 FT HIGH WIREMESH FENCE                                       |
|  | 6 FT HIGH CHAINLINK FENCE                                      |
|  | FIXED BOLLARD  |
|  | REMOVABLE BOLLARD  |
|  | EMERGENCY PHONE  |

## CIVIL

|  |  |
|--|--|
|  | AC PAVEMENT FOR GRADE CROSSING PER SCRR A ES4001 |
|  | CONCRETE BUS PAD                                 |
|  | 2" MIN GRIND AND OVERLAY                         |
|  | AC PAVEMENT PER COA STD 160-A                    |
|  | ASPHALT PAVEMENT, GRIND AND OVERLAY              |
|  | RIVER ROCK                                       |
|  | FLOW LINE  |
|  | RETAINING WALL                                   |
|  | WARNING DEVICE ASSEMBLY                          |
|  | PEDESTRIAN WARNING DEVICE                        |
|  | PEDESTRIAN SWING GATE                            |
|  | SIGN   |

## PLUMBING

|  |      |  |
|--|------|--|
|  | CW   | COLD WATER PIPING                      |
|  | SS   | SANITARY SEWER PIPING                  |
|  |      | CONNECTION FROM ABOVE                  |
|  |      | CONNECTION TO BELOW                    |
|  |      | PIPE TURNING DOWN                      |
|  |      | PIPE TURNING UP                        |
|  | AD   | AREA DRAIN                             |
|  |      | FIRE HYDRANT                           |
|  |      | WATER STATION                          |
|  |      | BACKFLOW PREVENTER (FLOW ARROW SHOWN)  |
|  |      | BALL VALVE                             |
|  |      | CAP ON END OF PIPE                     |
|  |      | CHECK VALVE (FLOW ARROW SHOWN)         |
|  | 1    | DETAIL NUMBER                          |
|  | P401 | DRAWING NUMBER                         |
|  |      | DIRECTION OF SLOPE, RISE (R), DROP (D) |
|  |      | DOWNSPOUT (DS)                         |
|  | EW   | EQUIPMENT NAME                         |
|  | 1    | EQUIPMENT NUMBER                       |
|  |      | FIXTURE TAG                            |
|  |      | GATE VALVE                             |
|  |      | GLOBE VALVE                            |
|  |      | HOSE BIBB                              |
|  |      | POINT OF CONNECTION (POC)              |
|  |      | QUICK DISCONNECT                       |

## ELECTRICAL

### SINGLE LINE DIAGRAM SYMBOLS

|  |                      |  |
|--|----------------------|--|
|  | 100AF<br>100AT<br>3P | CIRCUIT BREAKER, "AF" - FRAME AMPS, "AT" - TRIP AMPS                 |
|  | 12P<br>15AF<br>30AS  | FUSE DISCONNECT SWITCH, 30A UNO "AS" - SWITCH AMPS, "AF" - FUSE AMPS |
|  | 800AF<br>600AT<br>3P | DRAW-OUT TYPE CIRCUIT BREAKER, "AFR" - FRAME AMPS, "AT" - TRIP AMPS  |
|  |                      | POWER TRANSFORMER, RATING AS SHOWN ON PLAN                           |
|  |                      | CURRENT TRANSFORMER  |
|  |                      | GROUND FAULT PROTECTION  |
|  |                      | GROUND WIRE  |
|  |                      | MOTOR WITH FLEXIBLE CONDUIT CONNECTION.                              |
|  |                      | KILOWATT-HOUR METER SOCKET PER SERVICE COMPANY REQUIREMENT           |

### LIGHTING SYMBOLS

|  |   |
|--|---|
|  | 2-LAMP FLUORESCENT CEILING MOUNTED LIGHTING FIXTURE PER SCHEDULE  |
|  | 1-LAMP FLUORESCENT CEILING MOUNTED LIGHTING FIXTURE PER SCHEDULE  |
|  | POLE MOUNTED LIGHTING FIXTURE ON PLATFORM SINGLE LUMINAIRE. RATING AS SHOWN ON PLAN.  |
|  | POLE MOUNTED LIGHTING FIXTURE ON PARKING LOT SINGLE LUMINAIRE. RATING AS SHOWN ON PLAN.   |
|  | POLE MOUNTED LIGHTING FIXTURE ON PARKING LOT BACK TO BACK. RATING AS SHOWN ON PLAN  |
|  | POLE MOUNTED LIGHTING FIXTURE ON LAYOVER FACILITY PLATFORM. RATING AS SHOWN ON PLAN.  |
|  | TOGGLE SWITCH 120/277V 20A SINGLE POLE SINGLE THROW SWITCHING, OS = OCCUPANCY SENSOR, M = MANUAL STARTER WITH THERMAL OVERLOAD RELAY MOUNTED +4'-0" AFF         |
|  | LIGHTING PANEL. RATING AS SHOWN ON SCHEDULE AND DIAGRAM   |
|  | LIGHTING FIXTURE DESIGNATION, SEE LIGHTING FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE, NUMBER INDICATES TOTAL INPUT WATTS PER FIXTURE |
|  | ROADWAY TYPE POLE MOUNTED LIGHTING FIXTURE PER SCHEDULE   |

### COMMUNICATION SYMBOLS

|  |   |
|--|---|
|  | COMMUNICATION PULLBOX PER SCRR A STANDARD |
|--|---|

## ELECTRICAL (CONTINUED)

### POWER SYMBOLS

|  |   |
|--|---|
|  | JUNCTION BOX  |
|  | RECEPTACLE DUPLEX 3-WIRE GROUNDING TYPE, 20AMP, 125VAC WALL MOUNTED AT 15" AFF UNO, GFCI TYPE                                     |
|  | RECEPTACLE DUPLEX 3-WIRE GROUNDING TYPE, 20AMP, 125VAC WALL MOUNTED AT 15" AFF UNO  |
|  | POWER PANEL SURFACE MOUNTED   |
|  | LIGHTING PANEL SURFACE MOUNTED  |
|  | EMBEDDED, OR UNDERGROUND CONDUIT  |
|  | CONDUIT AND WIRE HOMERUN TO PANEL & CIRCUITS NOTED  |
|  | CONDUIT CONCEALED, OR IN CEILING SPACE  |
|  | 2*12 3/4" C 6*12 1" C   |
|  | 3*12 3/4" C 7*12 1" C   |
|  | 4*12 3/4" C 8*12 1" C   |
|  | 5*12 3/4" C 9*12 1" C   |
|  | *10 OR OTHER AWG ADJACENT TO HASHMARKS INDICATES A WIRE SIZE OTHER THAN *12AWG SEE NEC FOR MINIMUM CONDUIT SIZES, ANNEX C-TABLES. |
|  | FEEDER NAME. XXX DENOTES LETTERS FOR FEEDER TAG DESIGNATION   |
|  | POWER EQUIPMENT NAME. XXX DENOTES LETTERS FOR EQUIPMENT TAG DESIGNATION   |
|  | THERMOSTAT, BY OTHERS   |
|  | GROUND ROD IN WELL  |
|  | ELECTRICAL PULLBOX PER SCRR A STANDARD  |

## UTILITIES

|  |                   |
|--|-------------------|
|  | COMMUNICATION     |
|  | GAS               |
|  | WATER             |
|  | FIBER OPTIC       |
|  | STORM DRAIN       |
|  | SEWER             |
|  | ELECTRIC          |
|  | ELECTRIC OVERHEAD |
|  | CABLE TV          |
|  | POTHOLE           |

### NOTE:

ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT

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INFORMATION CONFIDENTIAL:  
All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.

|             |            |
|-------------|------------|
| DESIGNED BY | D. BARRAZA |
| DRAWN BY    | D. BARRAZA |
| CHECKED BY  | S. RUGGLES |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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|                  |                 |
|------------------|-----------------|
|                  | METROLINK®      |
|                  |                 |
| SUBMITTED: _____ | APPROVED: _____ |
| PROJECT MANAGER  |                 |

ANAHEIM CANYON  
METROLINK STATION PROJECT  
LEGENDS AND SYMBOLS

|              |           |
|--------------|-----------|
| CONTRACT NO. | C-4-1977  |
| DRAWING NO.  | GI-011    |
| REVISION     | SHEET NO. |
|              | 4 OF 71   |
| SCALE        | NONE      |



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ABBREVIATIONS

|                |   |
|----------------|---|
| &              | AND   |
| @              | AT  |
| '              | FOOT, FEET, MINUTE(S)                             |
| "              | INCH, INCHES, SECOND(S)                           |
| %              | PERCENT   |
| #              | POUND, NUMBER                                     |
| Δ              | DELTA (ANGLE)                                     |
| *              | ASTERISK, PRESTRESSED CONCRETE FASCIA GIRDER MARK |
| AC             | ASPHALT CONCRETE                                  |
| ADA            | AMERICAN DISABILITIES ACT                         |
| AGG            | AGGREGATE   |
| AP             | ANGLE POINT                                       |
| APPROX         | APPROXIMATELY                                     |
| AVE            | AVENUE  |
| BB             | BEGINNING OF BRIDGE                               |
| BC             | BEGINNING OF CURVE                                |
| BEG            | BEGIN or BEGINNING                                |
| BLVD           | BOULEVARD   |
| BNSF           | BNSF RAILWAY                                      |
| B/R            | BOTTOM OF RAIL                                    |
| CB             | CATCH BASIN                                       |
| CA, CAL        | CALIFORNIA  |
| CALTRANS       | CALIFORNIA DEPARTMENT OF TRANSPORTATION           |
| CIDH           | CAST IN DRILLED HOLES                             |
| CIP            | CAST IRON PIPE, CAST IN PLACE                     |
| CL             | CENTERLINE  |
| CLR            | CLEAR, CLEARANCE                                  |
| CMP            | CORRUGATED METAL PIPE                             |
| CMPA           | CORRUGATED METAL PIPE (ARCH)                      |
| CO             | CLEAN OUT   |
| COMM           | COMMUNICATION                                     |
| COMP           | COMPROMISE JOINT                                  |
| CONC           | CONCRETE  |
| CP             | CONTROL POINT                                     |
| CG             | CURB AND GUTTER                                   |
| CS             | CURVE TO SPIRAL                                   |
| CSP            | CORRUGATED STEEL PIPE                             |
| CPUC, PUC      | CALIFORNIA PUBLIC UTILITIES COMMISSION            |
| Dc             | DEGREE OF CURVATURE (CHORD DEFINITION)            |
| DESC           | DESCRIPTION                                       |
| DI             | DRAINAGE INLET                                    |
| DIA, Ø         | DIAMETER  |
| DOT            | DEPARTMENT OF TRANSPORTATION                      |
| DR             | DRIVE   |
| DWG            | DRAWING   |
| (E), EX, EXIST | EXISTING  |
| E              | EAST, EASTERLY, EASTING, EXPANSION END            |
| Ea             | SUPERELEVATION (ACTUAL)                           |
| EB             | END OF BRIDGE                                     |
| EC             | END OF CURVE                                      |
| EF             | EACH FACE   |
| EFWBW          | EAST FACE OF WEST BACK WALL                       |
| EG             | EXISTING GRADE                                    |
| ELEC           | ELECTRIC, ELECTRICAL                              |
| EL, ELEV       | ELEVATION   |
| ESMT           | EASEMENT  |
| Eu             | SUPERELEVATION (UNBALANCED)                       |
| F              | FIXED END   |
| FES            | FLARED END SECTION                                |
| FF             | FAR FACE  |
| FG             | FINISHED GRADE                                    |
| *FG-*          | FASCIA GIRDER NUMBER                              |
| FL             | FLOW LINE   |
| FO             | FIBER OPTIC                                       |
| FRA            | FEDERAL RAILROAD ADMINISTRATION                   |
| FS             | FINISHED SURFACE                                  |
| FT             | FOOT, FEET  |
| GALV           | GALVANIZED  |
| GB             | GRADE BREAK                                       |

|          |  |
|----------|--|
| HDPE     | HIGH-DENSITY POLYETHYLENE                                |
| HMA      | HOT-MIX ASPHALT  |
| HMAC     | HOT-MIX ASPHALT CONCRETE                                 |
| HORIZ    | HORIZONTAL   |
| HW       | HEADWALL   |
| HT       | HAND THROW   |
| HTTO     | HAND THROW TURNOUT                                       |
| IND      | INDUSTRY TRACK   |
| INV      | INVERT   |
| IP       | IRON PIPE  |
| L        | LENGTH   |
| LA       | LOS ANGELES  |
| LACDPW   | LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS            |
| LH       | LEFT HAND  |
| LOL      | LAYOUT LINE  |
| LT       | LEFT, LEAD TRACK   |
| Ls       | LENGTH OF SPIRAL   |
| MAX      | MAXIMUM  |
| MED      | MEDIAN   |
| METRO    | LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY |
| MIN      | MINIMUM  |
| ML       | MAINLINE   |
| MP       | MILEPOST   |
| MTRK     | MAIN TRACK   |
| N        | NORTH, NORTHERLY, NORTHING                               |
| NF       | NEAR FACE  |
| NIC      | NOT IN CONTRACT  |
| NO       | NUMBER, NORTHERN   |
| NTS      | NOT TO SCALE   |
| N/A      | NOT APPLICABLE   |
| OC, O/C  | ON CENTER  |
| OCTA     | ORANGE COUNTY TRANSPORTATION AUTHORITY                   |
| OD       | OUTSIDE DIAMETER   |
| OG       | ORIGINAL GROUND  |
| OP       | OVERPASS   |
| PB       | PULLBOX  |
| PC       | POINT OF CURVATURE                                       |
| PCC      | POINT OF COMPOUND CURVATURE                              |
| PC/PS    | PRECAST PRESTRESSED                                      |
| PED      | PEDESTRIAN   |
| PERF     | PERFORATED   |
| PH       | POTHOLE  |
| PI       | POINT OF INTERSECTION                                    |
| PITO     | POINT OF INTERSECTION OF TURNOUT                         |
| PL       | PLACE  |
| PO       | POWER OPERATED   |
| POB      | POINT OF BEGINNING                                       |
| POC      | POINT ON CURVE   |
| POE      | POINT OF ENDING  |
| POT      | POINT ON TANGENT   |
| POTO     | POWER OPERATED TURNOUT                                   |
| PRC      | POINT OF REVERSE CURVATURE                               |
| PROP     | PROPOSED   |
| PS       | POINT OF SWITCH  |
| PVC      | POINT OF VERTICAL CURVE, POLYVINYL CHLORIDE              |
| PVI      | POINT OF VERTICAL INTERSECTION                           |
| PVT      | POINT OF VERTICAL TANGENT                                |
| R        | RADIUS   |
| RBM      | RAILBOUND MANGANESE                                      |
| RCB      | REINFORCED CONCRETE BOX                                  |
| RCFC&WCD | RIVERSIDE FLOOD CONTROL & WATER CONSERVATION DISTRICT    |
| RCP      | REINFORCED CONCRETE PIPE                                 |
| REQ'D    | REQUIRED   |
| RPM      | RAISED PAVEMENT MARKER                                   |
| RR       | RAILROAD   |
| RSP      | ROCK SLOPE PROTECTION                                    |
| RT       | RIGHT  |
| RH       | RIGHT HAND   |
| R/W      | RIGHT-OF-WAY   |

|            |  |
|------------|--|
| S          | SOUTH, SOUTHERLY, SLOPE                      |
| SC         | SPIRAL TO CURVE                              |
| SCE        | SOUTHERN CALIFORNIA EDISON                   |
| SCG        | SOUTHERN CALIFORNIA GAS COMPANY              |
| SCRRA      | SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  |
| SD         | STORM DRAIN                                  |
| SDMH       | STORM DRAIN MANHOLE                          |
| SDNG       | SIDING TRACK                                 |
| SHT        | SHEET  |
| SIG        | SIGNAL                                       |
| SMSR       | SOLID MANGANESE SPRING RAIL                  |
| SO         | SOUTHERN                                     |
| SPA        | SPACING                                      |
| SPPWC      | STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION |
| SSMH       | SANITARY SEWER MANHOLE                       |
| ST         | SPIRAL TO TANGENT, STREET                    |
| STA        | STATION                                      |
| STD        | STANDARD                                     |
| STRUCT     | STRUCTURE                                    |
| T          | TANGENT                                      |
| T/C        | TRACK CENTER(S)                              |
| TC         | TOP OF CURB                                  |
| TG         | TOP OF GRATE                                 |
| TO         | TURNOUT                                      |
| TOT        | TOTAL  |
| T/R        | TOP OF RAIL                                  |
| TR         | TAPERED RAIL                                 |
| TRK        | TRACK  |
| TS         | TANGENT TO SPIRAL                            |
| TYP, (TYP) | TYPICAL                                      |
| UD         | UNDERDRAIN                                   |
| UP         | UNDERPASS                                    |
| UPRR       | UNION PACIFIC RAILROAD                       |
| V          | SPEED  |
| Vf         | SPEED OF FREIGHT                             |
| Vp         | SPEED OF PASSENGER                           |
| VERT       | VERTICAL                                     |
| W          | WEST, WESTERLY                               |
| W/         | WITH   |
| WFEBW      | WEST FACE OF EAST BACK WALL                  |
| WWM        | WELDED WIRE MESH                             |
| XING       | CROSSING                                     |
| XO, XOVER  | CROSSOVER                                    |

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| DESIGNED BY | D. BARRAZA |
| DRAWN BY    | D. BARRAZA |
| CHECKED BY  | S. RUGGLES |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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**METROLINK®**

**ORANGE COUNTY  
TRANSPORTATION  
AUTHORITY**

SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

ANAHEIM CANYON  
METROLINK STATION PROJECT

ABBREVIATIONS

|              |                      |
|--------------|----------------------|
| CONTRACT NO. | C-4-1977             |
| DRAWING NO.  | GI-012               |
| REVISION     | SHEET NO.<br>5 OF 71 |
| SCALE        | NONE                 |



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GENERAL NOTES

1.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY CODES, REGULATIONS, AND SPECIFICATIONS FOR THIS CONTRACT.
2.

ALL CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED AND COORDINATED WITH THE ENGINEER AND THE VARIOUS COMPANIES, AGENCIES, AND OTHER CONTRACTORS WHO MAY BE AFFECTED BY THIS WORK.
3.

HORIZONTAL AND VERTICAL CONTROL POINTS FOR THE SITE LAYOUT ARE IDENTIFIED IN THE CONTRACT DOCUMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THESE CONTROL POINTS TO ASSURE THAT ALL FACILITIES INCLUDED IN PROJECT ARE CONSTRUCTED AT THE CORRECT HORIZONTAL AND VERTICAL LOCATIONS.
4.

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" IS VALID. THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT (1-800-422-4133) TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION TO OBTAIN A DIG ALERT ID NUMBER.
5.

CALIFORNIA SENATE BILL 1359 (APPROVED 2006) OUTLINES PROCEDURES FOR LOCATING UTILITIES BY HAND EXCAVATION. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THIS LEGISLATION AND COMPLY WITH ITS DIRECTIVE. PRIOR TO EACH CONSTRUCTION ACTIVITY WITHIN RAILROAD RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY RAILROAD'S SIGNAL REPRESENTATIVE.
6.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS FOR CONFLICTS WITH EXISTING UTILITIES, SIGNAL CABLES/EQUIPMENT, FIBER OPTIC LINES, AND/OR OTHER ITEMS THAT MIGHT IMPAIR CONSTRUCTION ACTIVITIES. INCONSISTENCIES FOUND SHALL BE REPORTED TO THE ENGINEER.
7.

REPAIRS TO THE DAMAGED MATERIALS OR FACILITIES INTENDED TO REMAIN IN PLACE SHALL BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE STATED BY THE ENGINEER.
8.

ALL EXCAVATED WASTE MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE. ON SITE STORAGE OF EXCAVATED WASTE MATERIAL SHALL NOT BE PERMITTED AT ANY TIME.
9.

DEFINITIONS:

A. TRACK OUTAGE:

TRACK WHICH IS OUT OF SERVICE FOR A GIVEN PERIOD OF TIME.

B. ACTIVE TRACK:

TRACK ON WHICH TRAINS ARE OPERATING AND INTERRUPTION OF SERVICE MAY OCCUR ONLY WITHIN AN APPROVED "WINDOW" AS DEFINED BELOW.

C. FOULED TRACK:

TRACK IS FOULED WHEN AN OBSTRUCTION IS PLACED WITHIN EIGHT (8) FEET FROM THE CENTERLINE OF THE TRACK OR WHEN AN OVERHEAD OBSTRUCTION IS PLACED WITHIN TWENTY TWO AND A HALF FEET (22'-6") ABOVE THE TOP OF RAIL.

D. WORK WINDOW:

A PERIOD OF TIME WITH SPECIFIC BEGINNING AND ENDING TIME AND DURATIONS FOR WHICH THE TRACK, SIGNALS, BRIDGES, AND OTHER OPERATING SYSTEM ELEMENTS WITHIN THE OPERATING ENVELOPE ARE TEMPORARILY REMOVED FROM SERVICE OR MODIFIED IN SOME OTHER MANNER AND TRAIN AND OTHER OPERATIONS SUSPENDED OR MODIFIED TO ALLOW CONSTRUCTION OR MAINTENANCE WORK TO OCCUR. WRITTEN AUTHORITY FROM SCRRRA AND AN APPROVED SITE SPECIFIC WORK PLAN (SSWP) IS REQUIRED BEFORE THE CONTRACTOR IS GRANTED A WORK WINDOW. THE CONTRACTOR'S WORK WINDOW SHALL HAVE SPECIFIC GEOGRAPHIC LIMITS, WHICH ARE DEFINED IN THE APPROVED SSWP. MODIFICATIONS OR SUSPENSION OF TRAIN AND ON-TRACK EQUIPMENT MOVEMENTS RESULTING FROM A WORK WINDOW INVOLVES WRITTEN CHANGES TO THE RAILROAD'S RULES OF TRAIN AND ON-TRACK EQUIPMENT OPERATIONS.

E. EXCLUSIVE TRACK WINDOW:

AN APPROVED WORK WINDOW IN WHICH NO TRAIN MOVEMENTS (EXCEPT THE CONTRACTOR OR SCRRRA WORK TRAINS OR EQUIPMENT UNDER CONTROL OF THE EIC, PER THE SSWP) WILL OPERATE ON ANY TRACK WITHIN THE WINDOW LIMITS. THE CONTRACTOR MAY DISMANTLE, REMOVE, RECONSTRUCT, OR OTHERWISE OBSTRUCT TRACKS WITHIN THE LIMITS OF SUCH A WINDOW. THIS WORK MAY BE PROTECTED BY TRACK OUT OF SERVICE, TRACK AND TIME LIMITS, OR BY FORM B TRACK BULLETIN.

F. LIMITED TRACK WINDOW:

AN APPROVED WORK WINDOW FOR SOME, BUT NOT ALL TRACKS WITHIN A GENERAL WORK AREA (E.G. ONE TRACK REMAINS FOR OPERATION OF TRAINS, OTHER TRACKS ARE AVAILABLE FOR THE CONTRACTOR'S WORK). MOVEMENT OF TRAINS OVER THE TRACK(S) OF A LIMITED TRACK WINDOW IS UNDER THE CONTROL OF THE EIC WHO WILL NOT AUTHORIZE TRAIN MOVEMENT UNLESS AND UNTIL THE CONTRACTOR PERSONNEL AND EQUIPMENT ARE CLEAR OF THE OPERATING TRACK. THE CONTRACTOR MAY REMOVE, CONSTRUCT, OR OBSTRUCT ONLY THE TRACK DESIGNATED BY THE SSWP AND MUST ARRANGE THE WORK SO THAT TRAINS CAN OPERATE WITHOUT DELAY ON THE REMAINING TRACK(S) IN THE WORK AREA. THIS WORK MAY BE PROTECTED BY TRACK OUT OF SERVICE, TRACK AND TIME, OR BY FORM B TRACK BULLETIN.

G. FORM B WORK WINDOW:

AN APPROVED WORK WINDOW IN WHICH PASSENGER, FREIGHT, AND ALL OTHER TRAINS AND ON-TRACK EQUIPMENT MOVEMENTS CAN BE PROHIBITED FROM ENTERING THE DEFINED LIMITS OF A SEGMENT OF TRACK. THE FORM B WORK WINDOW DOES NOT ALLOW THE CONTRACTOR TO REMOVE FROM SERVICE OR MODIFY THE TRACKS, SIGNALS, BRIDGES, STATIONS, OR OTHER ELEMENTS OF THE OPERATING SYSTEM IN A MANNER WHICH WILL DELAY OR IN ANY WAY AFFECT THE SAFE OPERATION OF THE TRAINS. THE FORM B WORK WINDOW ALLOWS THE CONTRACTOR THE ABILITY TO ENTER THE OPERATING ENVELOPE AND PERFORM CONSTRUCTION ACTIVITIES SUBJECT TO THE CONDITIONS ABOVE. AN EMPLOYEE-IN-CHARGE/ FLAGMAN FORM SCRRRA WILL EXERCISE STRICT CONTROL OVER THE CONTRACTOR'S CONSTRUCTION ACTIVITIES IN CONJUNCTION WITH ROADWAY WORKER PROTECTION REQUIREMENTS, TO ASSURE THAT THE CONTRACTOR'S ACTIVITIES DO NOT DELAY OR IMPACT TRAIN SERVICE.

H. TRACK AND TIME:

AN APPROVED WORK WINDOW IN WHICH THE DISPATCHER WILL AUTHORIZE MEN AND EQUIPMENT TO OCCUPY A TRACK OR TRACKS WITHIN LIMITS FOR A CERTAIN TIME PERIOD. THE DISPATCHER AUTHORITY SHALL INCLUDE AUTHORITY NUMBER, TRACK DESIGNATION, LIMITS AND TIME. MOVEMENTS MAY BE MADE IN EITHER DIRECTION WITHIN THE SPECIFIED LIMITS UNTIL THE LIMITED ARE RELEASED.
10.

ON SITE CONSTRUCTION BY OTHERS (RAILROAD SIGNAL FORCES, SPRINT, UTILITIES, ETC.) MAY OCCUR DURING THE CONSTRUCTION PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE ENGINEER SO AS TO MINIMIZE INTERFERENCE WITH OTHERS.
11.

PRIOR TO COMMENCING WORK, ALL EXISTING SITE CONDITIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER TO ASCERTAIN THE LIMITS OF WORK ACTIVITIES. THE CONTRACTOR SHALL SUBMIT AND RECEIVE THE ENGINEER'S APPROVAL OF THE PROJECT SCHEDULE AND OPERATIONS PLAN. EACH ITEM OF WORK SHALL BE DESCRIBED AND ACCOUNTED FOR IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR FURTHER INFORMATION REGARDING SUBMITTAL REQUIREMENTS.
12.

RAIL TRAFFIC DISRUPTIONS SHALL BE KEPT TO A MINIMUM. DISRUPTIONS IN RAIL TRAFFIC THAT MAY BE REQUIRED SHALL BE COORDINATED WITH THE ENGINEER BEFOREHAND. NO SUCH WORK SHALL BE COMMENCED WITHOUT THE ENGINEER'S APPROVAL. WORK AFFECTING THE MOVEMENT OF TRAINS WILL BE UNDER THE AUTHORITY AND OVERALL CONTROL OF THE ENGINEER OR HIS REPRESENTATIVE. BNSF AND METROLINK COMMUTER TRAIN OPERATIONS MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

13.

THE CONTRACTOR SHALL NOT PLACE MATERIAL AND/OR EQUIPMENT WITHIN TWENTY (20) FEET OF AN ACTIVE TRACK AT ANY TIME WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
14.

WALKWAYS SHALL BE PLACED AS REQUIRED BY CALIFORNIA PUBLIC UTILITIES COMMISSION GENERAL ORDER NO. 118 AND 26D FOR ALL NEW CONSTRUCTION, UNLESS OTHERWISE NOTED.
15.

THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY HOLD SCRRRA AND THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
16.

THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING FACILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN.
17.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES, AND STANDARD SPECIFICATIONS OF ALL AGENCIES THAT HAVE THE RESPONSIBILITY OF REVIEWING PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF ALL ITEMS PER THESE PLANS AND SPECIFICATIONS IN THIS LOCALITY.
18.

THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS AND PAY PERMIT FEES AS REQUIRED FOR CONSTRUCTION OF THIS PROJECT.
19.

THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER.
20.

CONTRACTOR SHALL PROVIDE FOR THE CONTINUOUS OPERATION OF THE EXISTING FACILITY WITHOUT INTERRUPTION DURING CONSTRUCTION UNLESS SPECIFICALLY AUTHORIZED OTHERWISE BY THE RESPECTIVE AUTHORITY.
21.

CONTRACTOR TO IDENTIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. FOR LOCATION OF SIGNALS AND COMMUNICATION CONDUITS CONTACT RAILROAD SIGNAL DEPARTMENT (909) 592-4152.
22.

NEW MAINLINE TRACKS SHALL BE 136RE CONTINUOUSLY WELDED RAIL (CWR) WITH PANDROL CLIPS AND CONCRETE TIES. SIDINGS AND INDUSTRY TRACKS MAY BE CONSTRUCTED FROM SECONDHAND 136RE RAIL ON TIMBER TIES.
23.

MINIMUM SUB BALLAST DEPTH THROUGHOUT THE PROJECT LIMITS SHALL BE DICTATED BY THE FINAL RECOMMENDATIONS OF THE PROJECT'S GEOTECHNICAL REPORT. FINAL DESIGN TEAM TO DICTATE THE LIMITS OF THE MINIMUM SUB BALLAST DEPTH IN THE TRACK PLAN AND PROFILE DRAWINGS.
24.

EXACT MODIFICATIONS TO THE PROJECT'S SPUR TRACKS TO BE DETERMINED DURING FINAL DESIGN.
25.

FINAL DESIGN TEAM TO EVALUATE THE FEASIBILITY OF INCREASING THE PROJECT'S PASSENGER TRAIN DESIGN SPEED TO SEVENTY-NINE (79) MPH THROUGH COORDINATION WITH OCTA, METROLINK, BNSF, AMTRAK AND UPRR.
26.

SCRRRA IS NOT A MEMBER OF DIGALERT. THE CONTRACTOR SHALL CALL SCRRRA SIGNAL DEPARTMENT AT (909)-592-1346 A MINIMUM OF FIVE (5) DAYS PRIOR TO BEGINNING CONSTRUCTION TO MARK SIGNAL AND COMMUNICATION CABLES AND CONDUITS. TO ASSURE CABLES AND CONDUITS HAVE BEEN MARKED, NO WORK MAY PROCEED UNTIL YOU HAVE BEEN PROVIDED WITH AN SCRRRA DIG NUMBER. IN CASE OF SIGNAL EMERGENCIES OR GRADE CROSSING PROBLEMS, THE CONTRACTOR SHALL CALL SCRRRA'S 24-HOUR SIGNAL EMERGENCY NUMBER 1-888-446-9721.
27.

BEFORE EXCAVATING, THE CONTRACTOR MUST DETERMINE WHETHER ANY UNDERGROUND PIPE LINES, ELECTRIC WIRES OR CABLES, INCLUDING FIBER OPTIC CABLE SYSTEMS, ARE PRESENT AND LOCATED WITHIN THE PROJECT WORK AREA BY CALLING THE SOUTHERN CALIFORNIA UNDERGROUND SERVICE ALERT AT 811.
28.

CONTACT SCRRRA'S CONSULTANT/CONTRACTOR AT (714 788-1864 TO ARRANGE FOR FLAGGING SERVICES. FLAGGING SERVICE IS DEPENDENT ON THE EMPLOYEE-IN-CHARGE (EIC) AVAILABILITY AND MAY REQUIRE A MINIMUM OF FIFTEEN (15) WORKING DAYS PRIOR TO BEGINNING WORK. PRIOR NOTIFICATION OF FLAGGING SERVICES DOES NOT GUARANTEE THE AVAILABILITY OF THE EIC FOR THE PROPOSED DATE OF WORK.
29.

CONTACT SCRRRA AT 1-909-451-2885 TO ARRANGE FOR THIRD PARTY SAFETY TRAINING. ALLOW 24 TO 72 HOURS FROM THE REQUEST FOR SAFETY TRAINING TO ARRANGE THE TRAINING.
30.

CONTRACTOR IS TO COMPLETE SCRRRA'S TEMPORARY RIGHT OF ENTRY AGREEMENT, FORM 6. THIS FORM IS AVAILABLE ON SCRRRA'S WEBSITE AT (www.metrolinktrains.com: About Us: Engineering & Construction).
31.

TEMPORARY TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO SCRRRA FOR COMMENTS AND APPROVAL NOT LESS THAN SIXTY (60) DAYS PRIOR TO START OF THE WORK. THE TEMPORARY TRAFFIC CONTROL PLANS SHALL BE PREPARED, SIGNED, AND SEALED BY A CALIFORNIA LICENSED CIVIL OR TRAFFIC ENGINEER. TEMPORARY TRAFFIC CONTROL WILL COMPLY WITH THE CURRENT EDITIONS OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD), WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH), TEMPORARY TRAFFIC CONTROL WORK AT OR NEAR GRADE CROSSING GUIDELINES PREPARED BY SCRRRA, AND SCRRRA'S ENGINEERING STANDARD ES4301.

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|--|
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|             |            |
|-------------|------------|
| DESIGNED BY | D. BARRAZA |
| DRAWN BY    | D. BARRAZA |
| CHECKED BY  | S. RUGGLES |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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**METROLINK®**



**ORANGE COUNTY  
TRANSPORTATION  
AUTHORITY**

SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

ANAHEIM CANYON  
METROLINK STATION PROJECT

GENERAL NOTES

|              |                      |
|--------------|----------------------|
| CONTRACT NO. | C-4-1977             |
| DRAWING NO.  | GI-013               |
| REVISION     | SHEET NO.<br>6 OF 71 |
| SCALE        | NONE                 |



CENTERLINE EXISTING TRACK

| Station                                 | Northing | Easting               |
|---|----------|-----------------------|
| Element: Linear                         |          |                       |
| POB ( 1010 )                            | 33+84.10 | 2261067.77 6079616.50 |
| PI ( 1011 )                             | 50+42.38 | 2259476.48 6079149.94 |
| Tangential Direction: S 16° 20' 26.6" W |          |                       |
| Tangential Length: 1658.275664          |          |                       |
| Element: Linear                         |          |                       |
| PI ( 1011 )                             | 50+42.38 | 2259476.48 6079149.94 |
| PI ( 1012 )                             | 61+83.04 | 2258381.89 6078829.02 |
| Tangential Direction: S 16° 20' 26.6" W |          |                       |
| Tangential Length: 1140.660472          |          |                       |
| Element: Linear                         |          |                       |
| PI ( 1012 )                             | 61+83.04 | 2258381.89 6078829.02 |
| POE ( 1013 )                            | 74+11.52 | 2257203.03 6078483.39 |
| Tangential Direction: S 16° 20' 26.6" W |          |                       |
| Tangential Length: 1228.486435          |          |                       |

CENTERLINE TUSTIN AVE

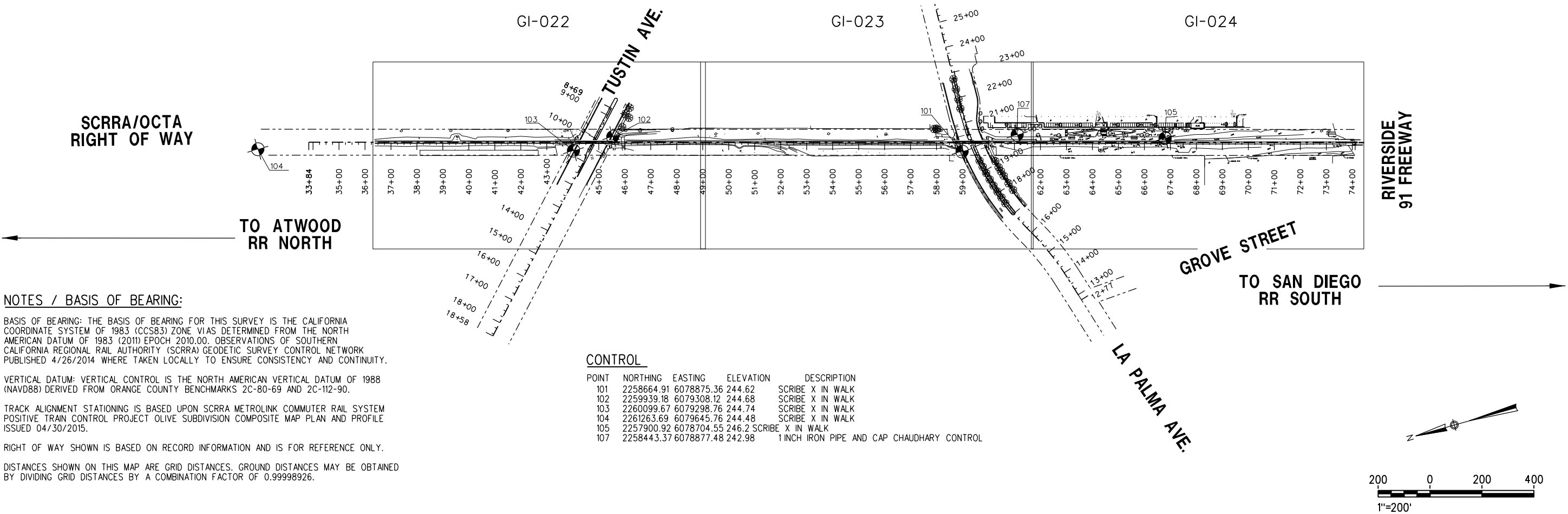
| Station                                 | Northing | Easting               |
|---|----------|-----------------------|
| Element: Linear                         |          |                       |
| POB ( 1000 )                            | 8+69.49  | 2259913.83 6079414.45 |
| PI ( 1014 )                             | 10+16.96 | 2260015.86 6079307.97 |
| Tangential Direction: N 46° 13' 24.9" W |          |                       |
| Tangential Length: 147.472556           |          |                       |
| Element: Linear                         |          |                       |
| PI ( 1014 )                             | 10+16.96 | 2260015.86 6079307.97 |
| POE ( 1015 )                            | 18+57.69 | 2260597.52 6078700.92 |
| Tangential Direction: N 46° 13' 24.9" W |          |                       |
| Tangential Length: 840.728738           |          |                       |

CENTERLINE LA PALMA AVE

| Station                                 | Northing | Easting               |
|---|----------|-----------------------|
| Element: Linear                         |          |                       |
| POB ( 1007 )                            | 12+76.77 | 2258385.22 6078197.87 |
| PC ( 1006 )                             | 13+78.50 | 2258413.13 6078295.70 |
| Tangential Direction: N 74° 04' 48.8" E |          |                       |
| Tangential Length: 101.730000           |          |                       |
| Element: Circular                       |          |                       |
| PC ( 1006 )                             | 13+78.50 | 2258413.13 6078295.70 |
| PI ( )                                  | 14+92.31 | 2258444.34 6078405.15 |
| CC ( 1005 )                             |          | 2259374.77 6078021.41 |
| PRC ( 1004 )                            | 16+05.15 | 2258499.36 6078504.78 |
| Radius: 1000.000000                     |          |                       |
| Delta: 12° 59' 10.0" Left               |          |                       |
| Degree of Curvature: 5° 43' 46.5"       |          |                       |
| Length: 226.650396                      |          |                       |
| Element: Circular                       |          |                       |
| PRC ( 1004 )                            | 16+05.15 | 2258499.36 6078504.78 |
| PI ( )                                  | 18+84.00 | 2258634.15 6078748.89 |
| CC ( 1003 )                             |          | 2257623.94 6078988.16 |
| PT ( 1002 )                             | 21+49.03 | 2258623.17 6079027.52 |
| Radius: 1000.000000                     |          |                       |
| Delta: 31° 09' 43.0" Right              |          |                       |
| Degree of Curvature: 5° 43' 46.5"       |          |                       |
| Length: 543.878532                      |          |                       |
| Element: Linear                         |          |                       |
| PT ( 1002 )                             | 21+49.03 | 2258623.17 6079027.52 |
| POE ( 1001 )                            | 28+89.38 | 2258594.02 6079767.30 |
| Tangential Direction: S 87° 44' 38.2" E |          |                       |
| Tangential Length: 740.350000           |          |                       |

LEGEND AND ABBREVIATIONS:

|  |                       |  |                                   |
|--|-----------------------|--|-----------------------------------|
|  | POWER POLE= PP        |  | PALM TREE                         |
|  | GUY ANCHOR= GA        |  | CONTROL POINT                     |
|  | LIGHT POLE= LP        |  | MANHOLE= MH                       |
|  | SIGN= SN              |  | FIRE HYDRANT= FH                  |
|  | RAILROAD GATE= RR GTE |  | INTERMEDIATE SIGNAL= INTER. SIG.  |
|  | TEST PIT= TP          |  |                                   |
|  | GAS VALVE= GV         |  |                                   |
|  | WATER VALVE= WV       |  |                                   |
|  | TREE                  |  |                                   |
|  | DIAMETER              |  |                                   |
|  |                       |  | UTC= UTILITY VAULT COMMUNICATIONS |
|  |                       |  | UTE= UTILITY VAULT ELECTRIC       |
|  |                       |  | LS= LANDSCAPED                    |
|  |                       |  | AC= ASPHALTIC CONCRETE            |
|  |                       |  | HC= HANDICAPPED                   |
|  |                       |  | BLDG= BUILDING                    |



NOTES / BASIS OF BEARING:

1. BASIS OF BEARING: THE BASIS OF BEARING FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE VIAS DETERMINED FROM THE NORTH AMERICAN DATUM OF 1983 (2011) EPOCH 2010.00. OBSERVATIONS OF SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY (SCRRA) GEODETIC SURVEY CONTROL NETWORK PUBLISHED 4/26/2014 WHERE TAKEN LOCALLY TO ENSURE CONSISTENCY AND CONTINUITY.
2. VERTICAL DATUM: VERTICAL CONTROL IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) DERIVED FROM ORANGE COUNTY BENCHMARKS 2C-80-69 AND 2C-112-90.
3. TRACK ALIGNMENT STATIONING IS BASED UPON SCRRA METROLINK COMMUTER RAIL SYSTEM POSITIVE TRAIN CONTROL PROJECT OLIVE SUBDIVISION COMPOSITE MAP PLAN AND PROFILE ISSUED 04/30/2015.
4. RIGHT OF WAY SHOWN IS BASED ON RECORD INFORMATION AND IS FOR REFERENCE ONLY.
5. DISTANCES SHOWN ON THIS MAP ARE GRID DISTANCES. GROUND DISTANCES MAY BE OBTAINED BY DIVIDING GRID DISTANCES BY A COMBINATION FACTOR OF 0.99998926.

CONTROL

| POINT | NORTHING   | EASTING    | ELEVATION | DESCRIPTION                                |
|-------|------------|------------|-----------|--|
| 101   | 2258664.91 | 6078875.36 | 244.62    | SCRIBE X IN WALK                           |
| 102   | 2259939.18 | 6079308.12 | 244.68    | SCRIBE X IN WALK                           |
| 103   | 2260099.67 | 6079298.76 | 244.74    | SCRIBE X IN WALK                           |
| 104   | 2261263.69 | 6079645.76 | 244.48    | SCRIBE X IN WALK                           |
| 105   | 2257900.92 | 6078704.55 | 246.2     | SCRIBE X IN WALK                           |
| 107   | 2258443.37 | 6078877.48 | 242.98    | 1 INCH IRON PIPE AND CAP CHAUDHARY CONTROL |

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|      |  |      |    |      |      |   |  |                            |                         |                         |                          |                    |  |  |                                   |  |   |  |                                |  |                          |                       |                                  |                  |
|------|--|------|----|------|------|---|--|----------------------------|-------------------------|-------------------------|--------------------------|--------------------|--|--|-----------------------------------|--|---|--|--------------------------------|--|--------------------------|-----------------------|----------------------------------|------------------|
| REV. |  | DATE | BY | SUB. | APP. | INFORMATION CONFIDENTIAL:<br>All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the the Southern California Regional Rail Authority and shall be held confidential, and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority. |  | DESIGNED BY<br>J. CASANOVA | DRAWN BY<br>J. CASANOVA | CHECKED BY<br>M. MILLER | APPROVED BY<br>M. MILLER | DATE<br>01-20-2017 | 30%<br>SUBMITTAL<br>NOT FOR CONSTRUCTION |  | <br><b>METROLINK®</b><br><br><br> |  | ANAHEIM CANYON<br>METROLINK STATION PROJECT |  | SURVEY CONTROL<br>SHEET 1 OF 4 |  | CONTRACT NO.<br>C-4-1977 | DRAWING NO.<br>GI-021 | REVISION<br>SHEET NO.<br>7 OF 71 | SCALE<br>1"=200' |
|------|--|------|----|------|------|---|--|----------------------------|-------------------------|-------------------------|--------------------------|--------------------|--|--|-----------------------------------|--|---|--|--------------------------------|--|--------------------------|-----------------------|----------------------------------|------------------|



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|             |             |
|-------------|-------------|
| DESIGNED BY | J. CASANOVA |
| DRAWN BY    | J. CASANOVA |
| CHECKED BY  | M. MILLER   |
| APPROVED BY | M. MILLER   |
| DATE        | 01-20-2017  |

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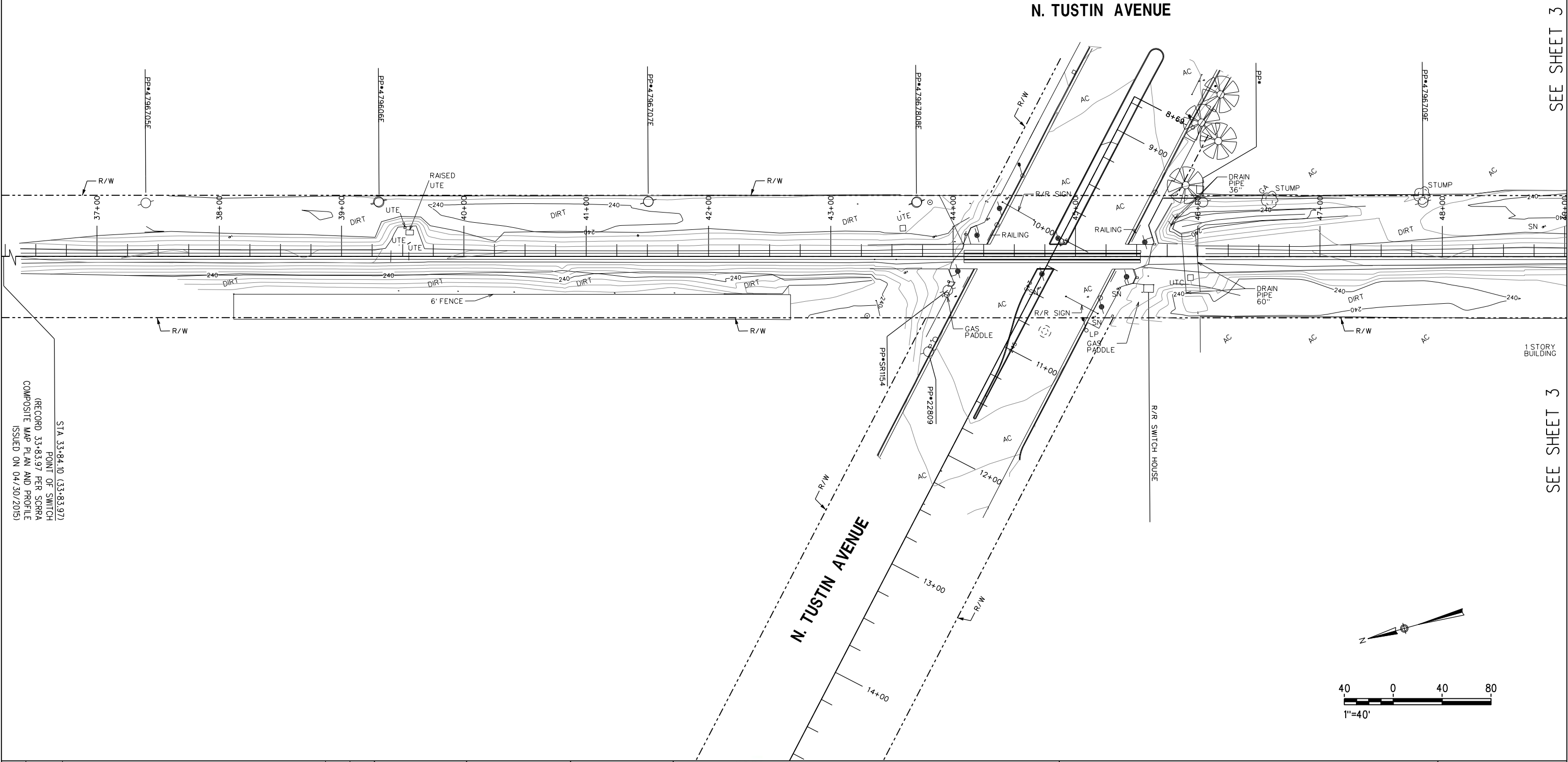


SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

ANAHEIM CANYON  
METROLINK STATION PROJECT  
SURVEY CONTROL  
SHEET 2 OF 4

|              |           |
|--------------|-----------|
| CONTRACT NO. | C-4-1977  |
| DRAWING NO.  | GI-022    |
| REVISION     | SHEET NO. |
|              | 8 OF 71   |
| SCALE        | 1"=40'    |



SEE SHEET 3

SEE SHEET 3



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|             |             |
|-------------|-------------|
| DESIGNED BY | J. CASANOVA |
| DRAWN BY    | J. CASANOVA |
| CHECKED BY  | M. MILLER   |
| APPROVED BY | M. MILLER   |
| DATE        | 01-20-2017  |

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**METROLINK®**

**ORANGE COUNTY  
TRANSPORTATION  
AUTHORITY**

**CH2M HILL  
ASSOCIATES, INC.**  
ENGINEERS SURVEYORS INSPECTORS

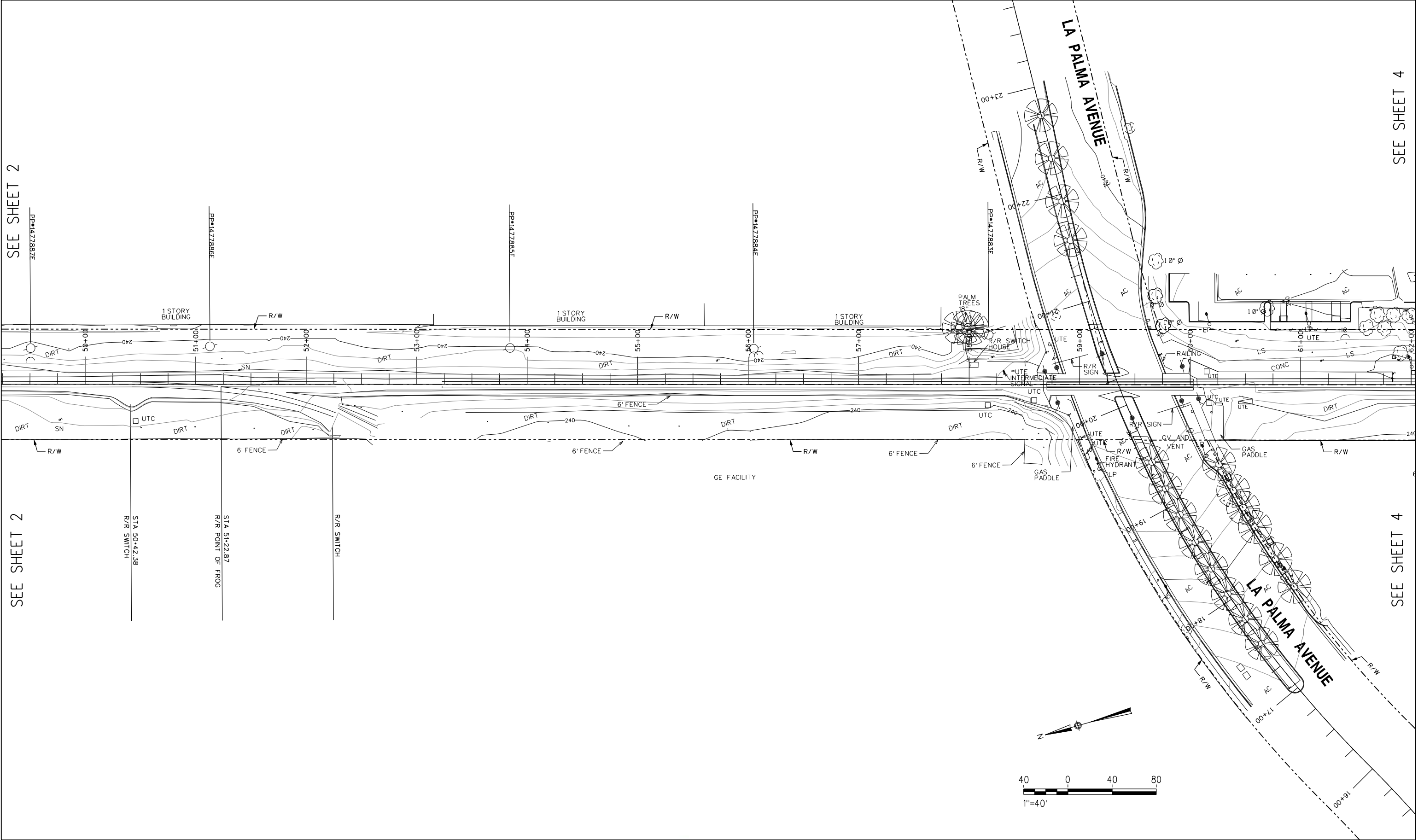
SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**

SURVEY CONTROL  
SHEET 3 OF 4

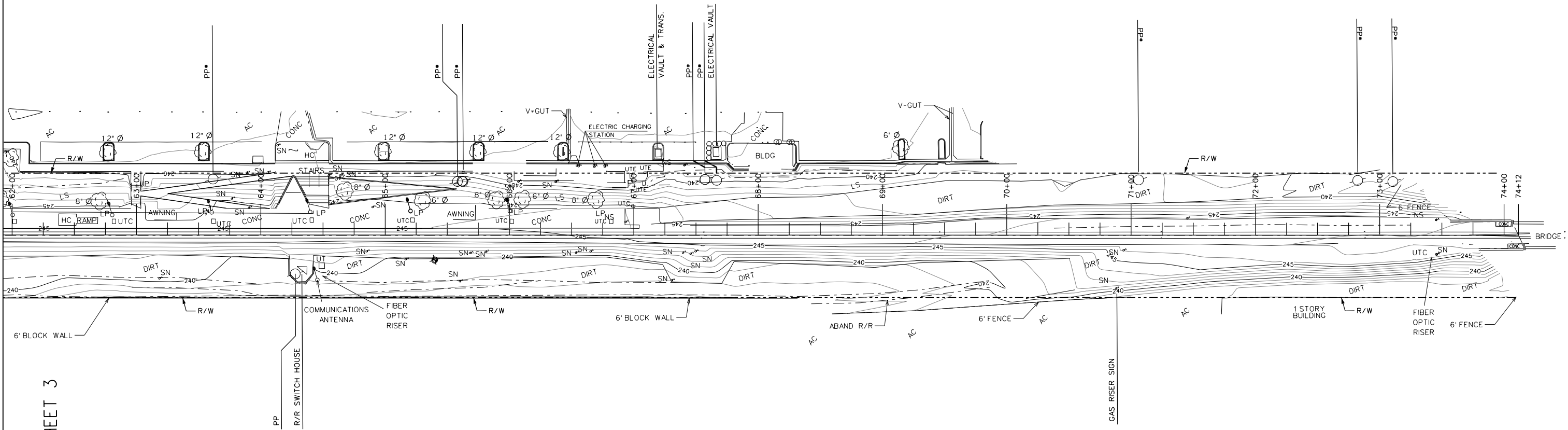
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|--------------|-----------|
| CONTRACT NO. | C-4-1977  |
| DRAWING NO.  | GI-023    |
| REVISION     | SHEET NO. |
|              | 9 OF 71   |
| SCALE        | 1"=40'    |



ANAHEIM CANYON STATION

SEE SHEET 3

SEE SHEET 3







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| PHASE | RAIL WORK WINDOW TYPE | TRACK OUTAGE DURATION               | WORK TO BE PERFORMED   |
|-------|-----------------------|-------------------------------------|--|
| 2.1   | ABSOLUTE              | APPROX 34-48 HOUR WEEKEND SHUTDOWN. | TURNOUT/CUTOVER INSTALLATION & SIGNAL WORK (GRADE XING/TRACK)                  |
| 2.2   | ABSOLUTE              | APPROX 34-48 HOUR WEEKEND SHUTDOWN. | TURNOUT/CUTOVER INSTALLATION & SIGNAL WORK (GRADE XING/TRACK)                  |
| 3     | "FORM B"              | NONE REQUIRED.                      | STATION PLATFORM, UTILITIES, GRADE CROSSINGS, STREET WORK & OTHER RELATED WORK |

PHASE 2

PHASING LEGEND:

NEW IMPROVEMENTS ARE SHOWN AS NEW IN THE PHASE THAT IT WILL BE CONSTRUCTED AND THEN EXISTING IN THE SUBSEQUENT PHASES.

RAILROAD:

- EXISTING MAINLINE TRACK
- EXISTING SECONDARY TRACK
- REMOVE TRACK
- NEW TRACK

SIGNALING:

- EXISTING SIGNAL HARDWARE
- NEW SIGNAL HARDWARE
- EXISTING CROSSING SIGNALS
- NEW CROSSING SIGNALS
- HOTBOX DETECTOR (HBD)

ROADWAY:

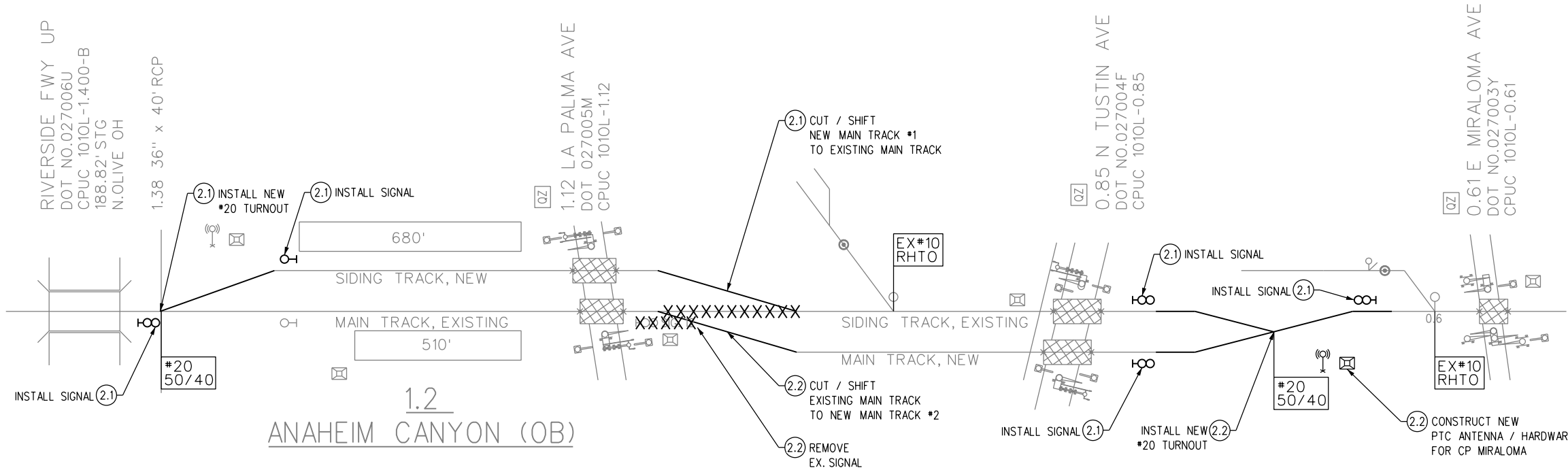
- EXISTING ROADWAY
- NEW ROADWAY IMPROVEMENTS
- EXISTING GRADE CROSSING
- NEW GRADE CROSSING

BRIDGE:

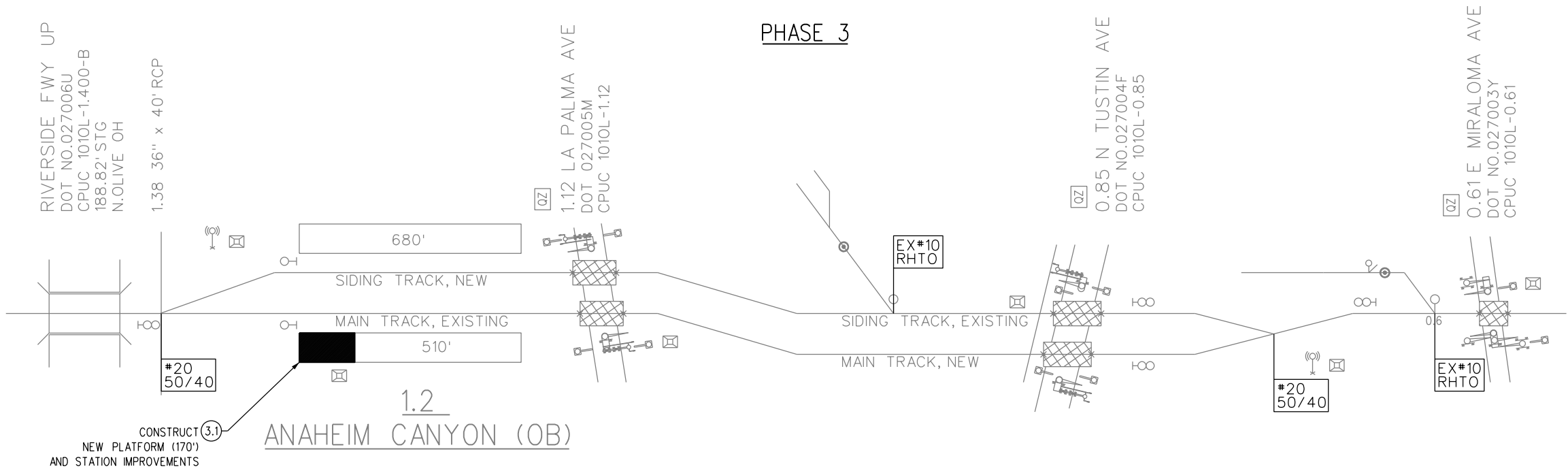
- EXISTING RAIL BRIDGE

STATION:

- EXISTING STATION PLATFORM
- NEW STATION PLATFORM



PHASE 3



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DESIGNED BY  
A. LEWIS  
DRAWN BY  
A. LEWIS  
CHECKED BY  
A. BOSCH  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

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**METROLINK®**



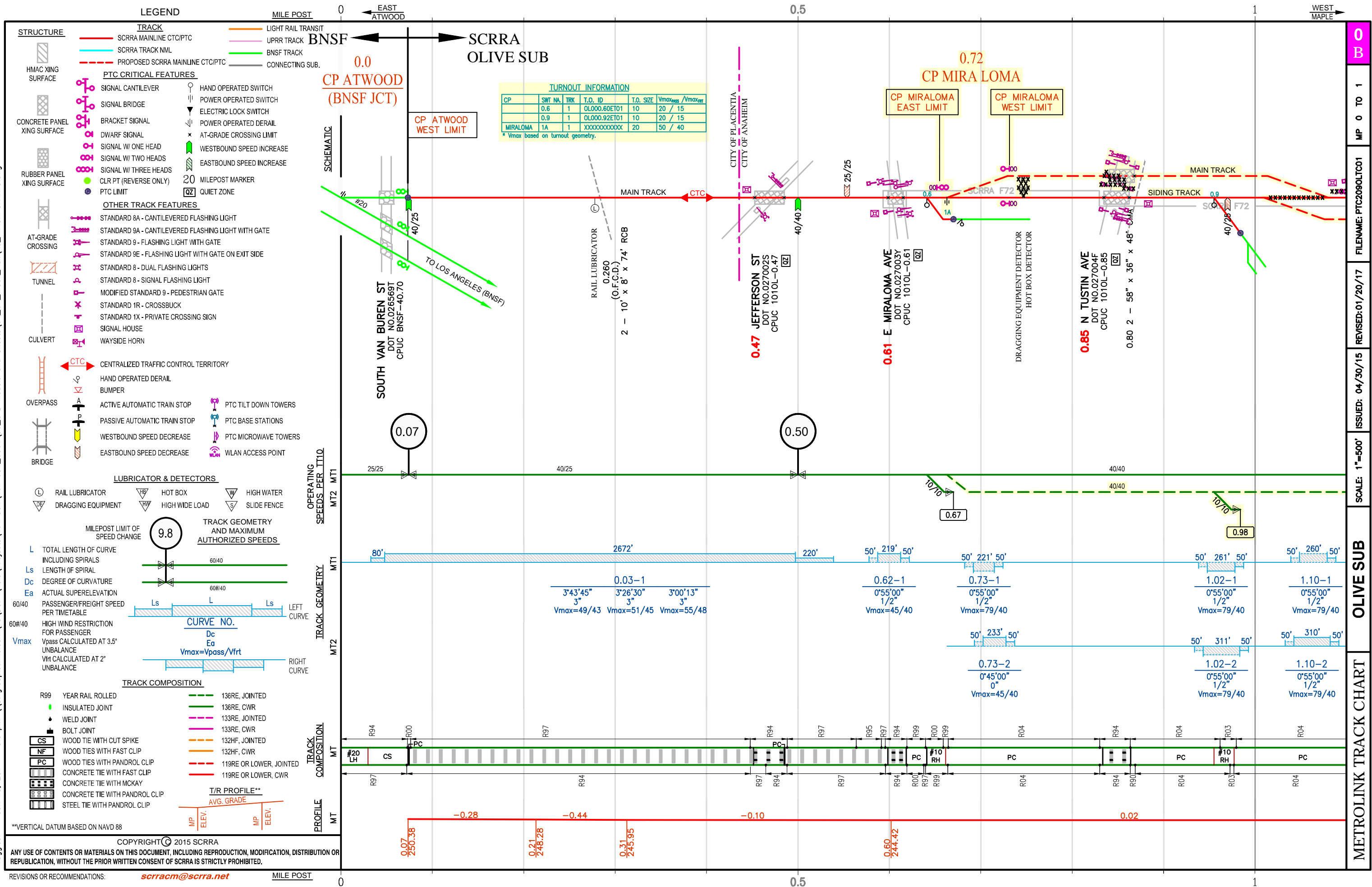
SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

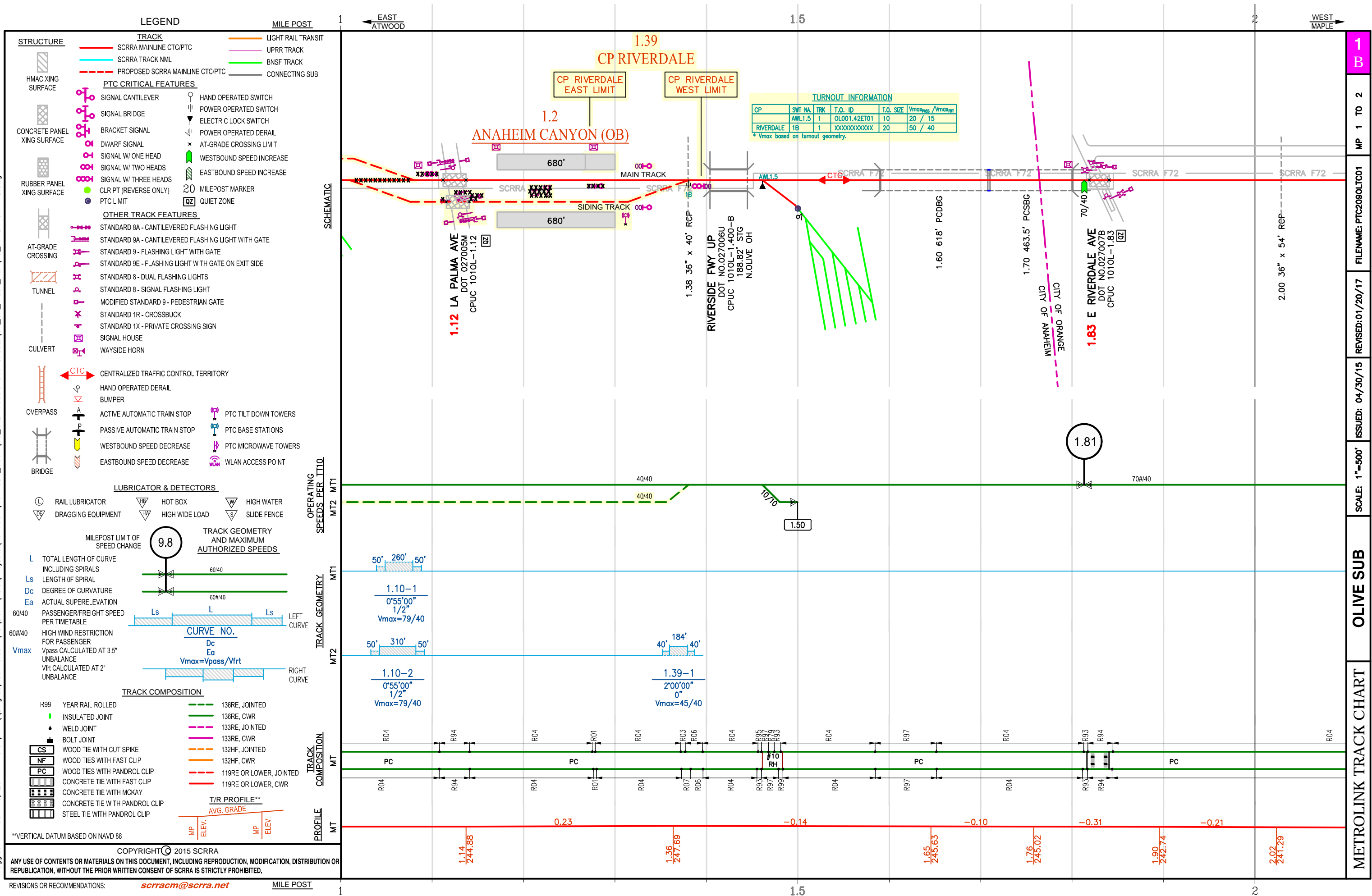
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
CONSTRUCTION PHASING PLAN  
PHASE 2 AND 3  
SHEET 2 OF 2

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO. GC-102       |                       |
| REVISION                 | SHEET NO.<br>12 OF 71 |
| SCALE<br>NONE            |                       |









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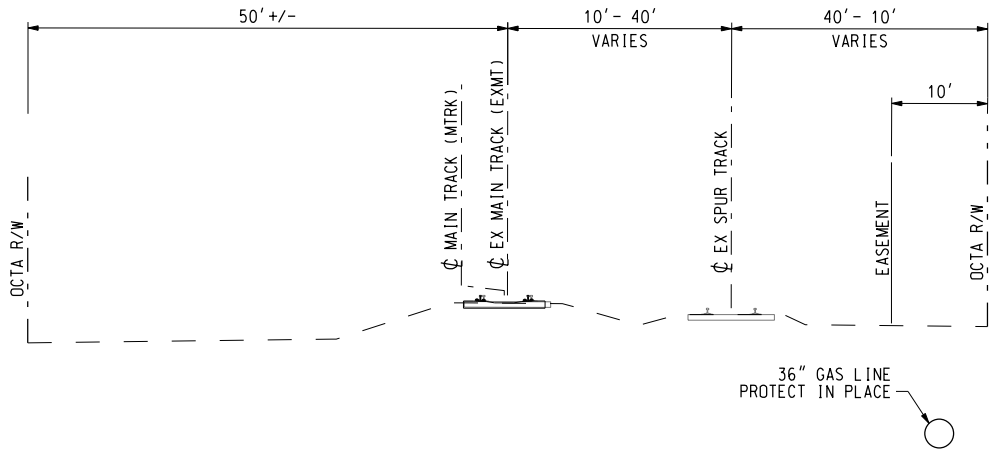
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|-------------|-------------|
| DESIGNED BY | J. GONZALEZ |
| DRAWN BY    | J. GONZALEZ |
| CHECKED BY  | A. SOKOL    |
| APPROVED BY | A. SOKOL    |
| DATE        | 01-20-2017  |

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|  <b>METROLINK®</b>    |   |
|  <b>STV</b> 100 Years |  <b>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</b> |
| SUBMITTED: _____<br>PROJECT MANAGER  | APPROVED: _____   |

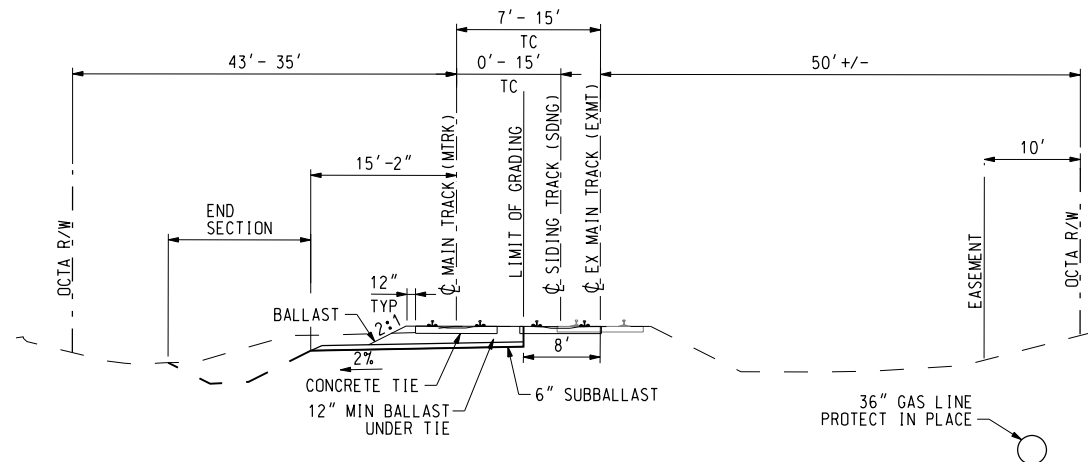
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| <b>ANAHEIM CANYON<br/>METROLINK STATION PROJECT</b> |  |
| TYPICAL SECTIONS<br>SHEET 1 OF 2                    |  |

|              |           |
|--------------|-----------|
| CONTRACT NO. | C-4-1977  |
| DRAWING NO.  | CK-011    |
| REVISION     | SHEET NO. |
|              | 15 OF 71  |
| SCALE        | NONE      |



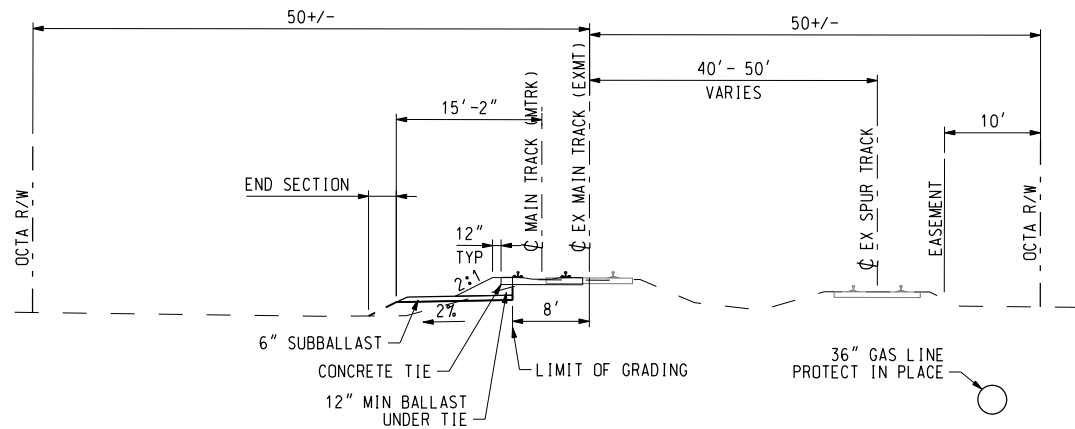
TYPICAL CROSS-SECTION  
MTRK 35+11 TO MTRK 36+35

SCALE: NONE



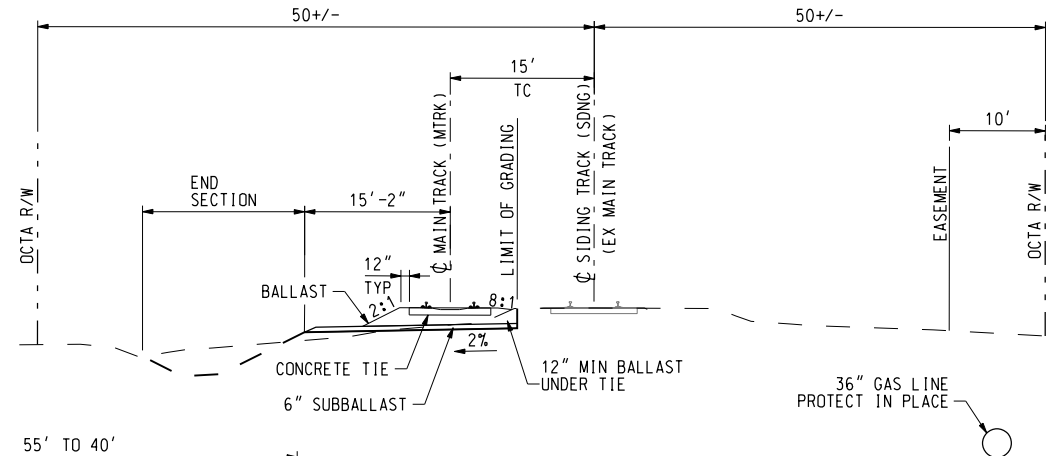
TYPICAL CROSS-SECTION  
MTRK 38+77 TO MTRK 43+05

SCALE: NONE



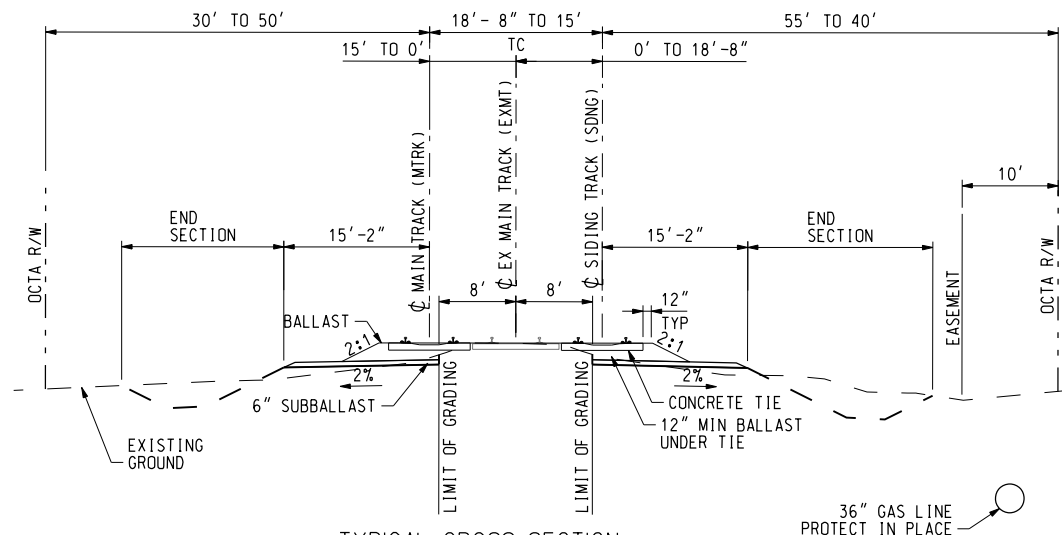
TYPICAL CROSS-SECTION  
MTRK 36+35 TO MTRK 38+77

SCALE: NONE



TYPICAL CROSS-SECTION  
MTRK 43+05 TO MTRK 44+11  
MTRK 45+65 TO MTRK 51+96

SCALE: NONE



TYPICAL CROSS-SECTION  
MTRK 51+96 TO MTRK 58+62

SCALE: NONE

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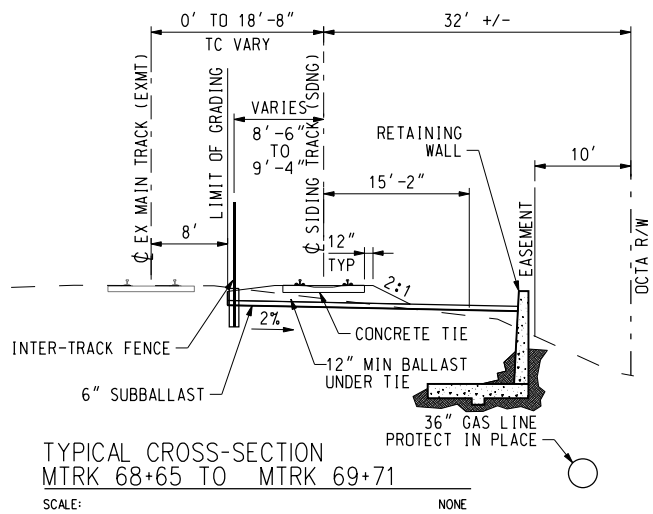
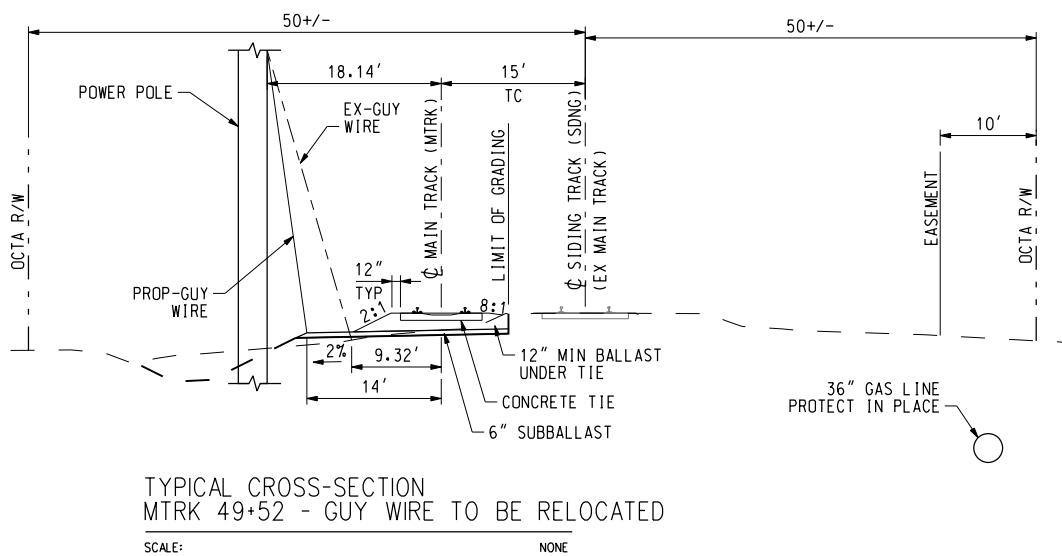
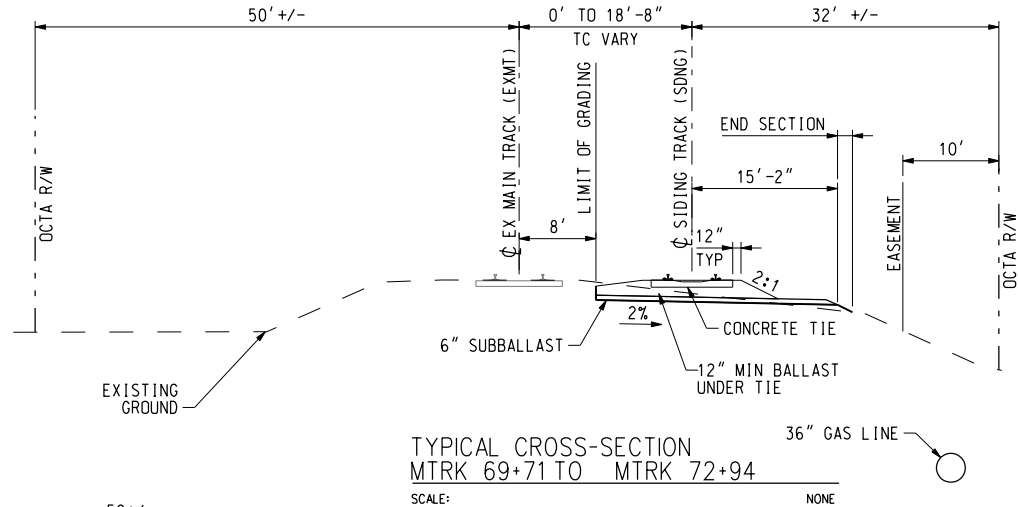
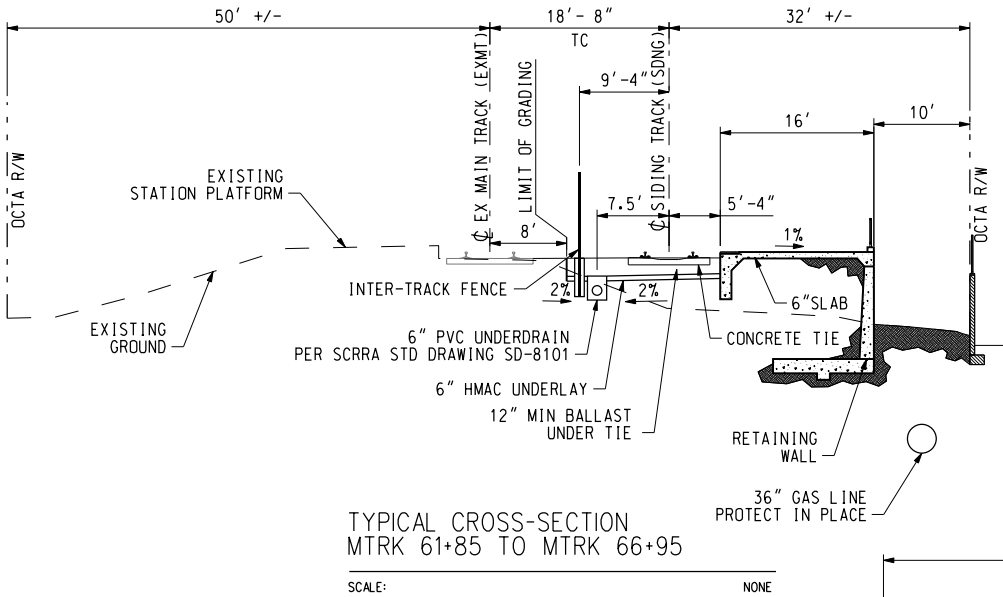
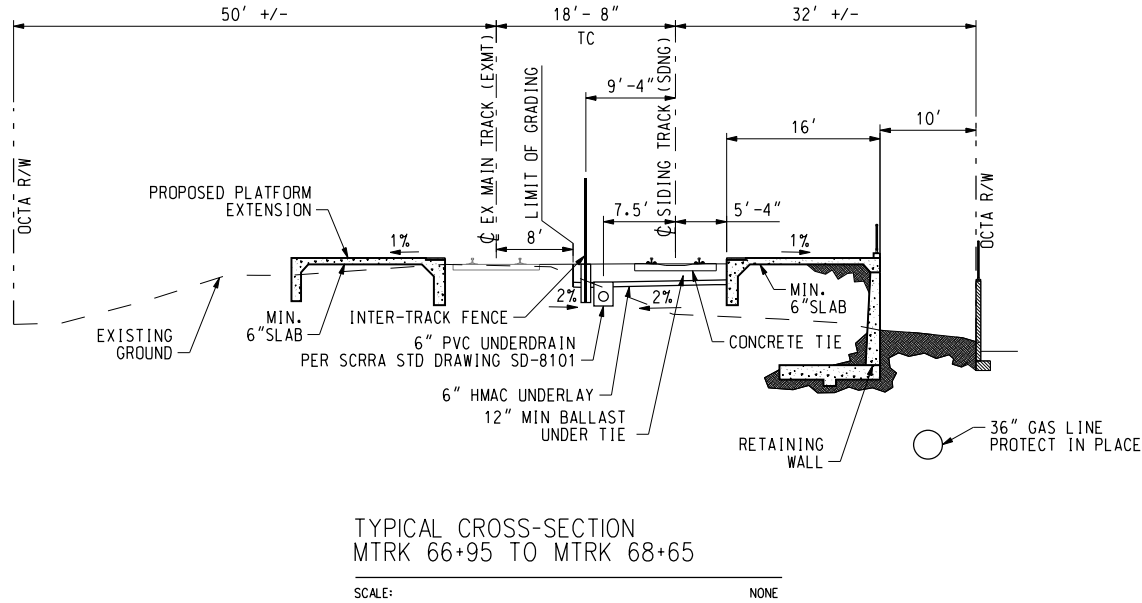
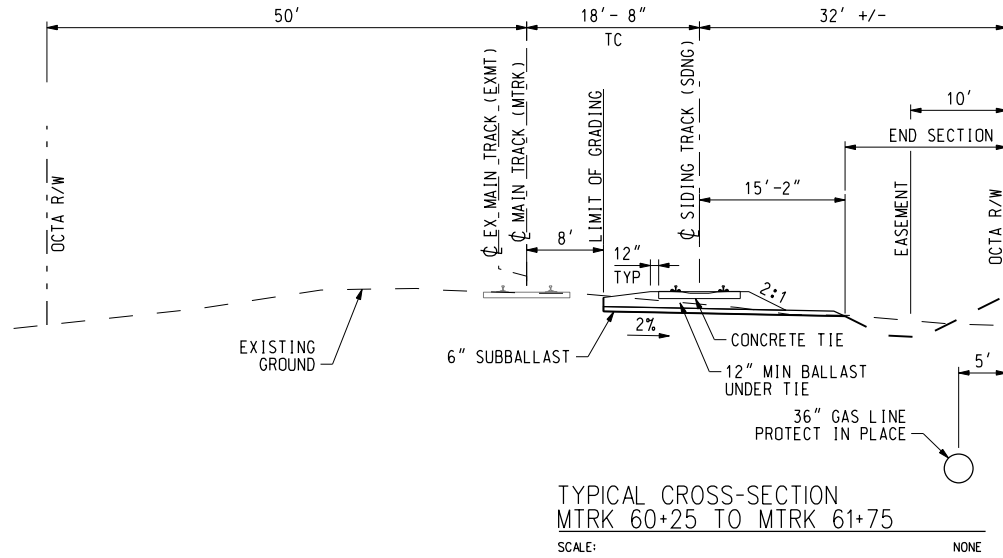
|             |             |
|-------------|-------------|
| DESIGNED BY | J. GONZALEZ |
| DRAWN BY    | J. GONZALEZ |
| CHECKED BY  | A. SOKOL    |
| APPROVED BY | A. SOKOL    |
| DATE        | 01-20-2017  |

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| PROJECT MANAGER   |   |

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| <b>ANAHEIM CANYON<br/>METROLINK STATION PROJECT</b> |  |
| TYPICAL SECTIONS<br>SHEET 2 OF 2                    |  |

|              |           |
|--------------|-----------|
| CONTRACT NO. | C-4-1977  |
| DRAWING NO.  | CK-012    |
| REVISION     | SHEET NO. |
|              | 16 OF 71  |
| SCALE        | NONE      |





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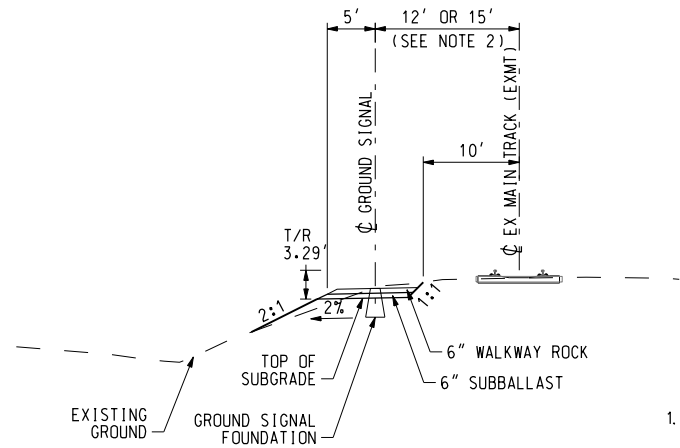
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|----------------------------|
| DESIGNED BY<br>J. GONZALEZ |
| DRAWN BY<br>J. GONZALEZ    |
| CHECKED BY<br>A. SOKOL     |
| APPROVED BY<br>A. SOKOL    |
| DATE<br>01-20-2017         |

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| SUBMITTED: _____<br>PROJECT MANAGER   | APPROVED: _____   |

|   |  |
|---|--|
| <b>ANAHEIM CANYON<br/>METROLINK STATION PROJECT</b> |  |
| RAILROAD SIGNAL GRADING DETAILS                     |  |

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO.<br>C-4-1977 | DRAWING NO.<br>CK-013 |
| REVISION                 | SHEET NO.<br>17 OF 71 |
| SCALE                    | NONE                  |



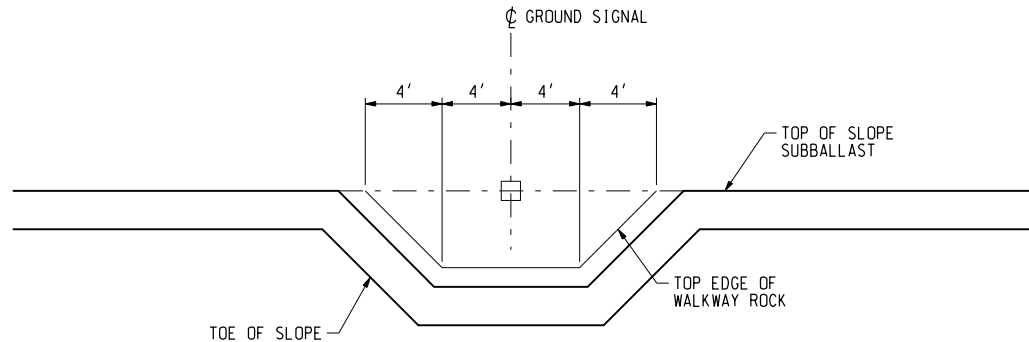
NOTES:

1. GRADING SHALL EXTEND FOR MINIMUM 4' ON BOTH SIDES OF THE EXTENTS OF MAST AND LADDER.
2. SEE TRACK PLAN AND PROFILE DRAWINGS FOR SIGNAL OFFSET DISTANCE FROM CENTERLINE OF TRACK.

CROSS SECTION - SIGNAL MAST

N.T.S

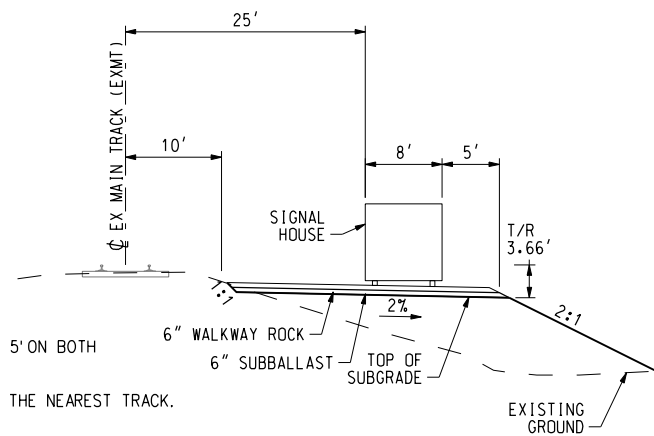
A  
CK-013



SIGNAL BERM DETAIL

N.T.S

C  
CK-013



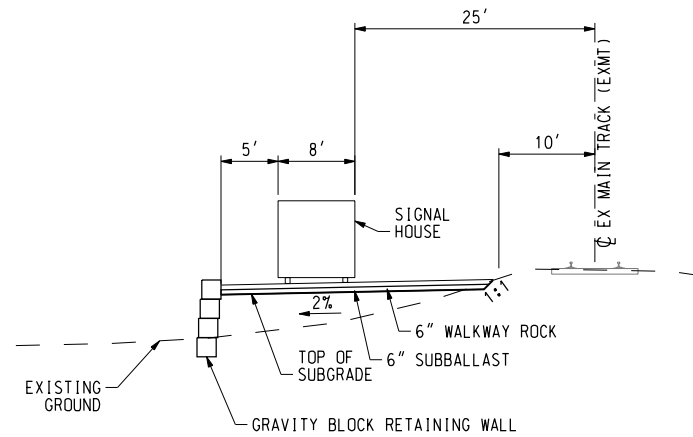
NOTES:

1. GRADING SHALL EXTEND FOR MINIMUM 5' ON BOTH SIDES OF THE HOUSE.
2. ALL HOUSES SHALL BE 25' CLEAR OF THE NEAREST TRACK.

CROSS SECTION - SIGNAL HOUSE

N.T.S

B  
CK-013



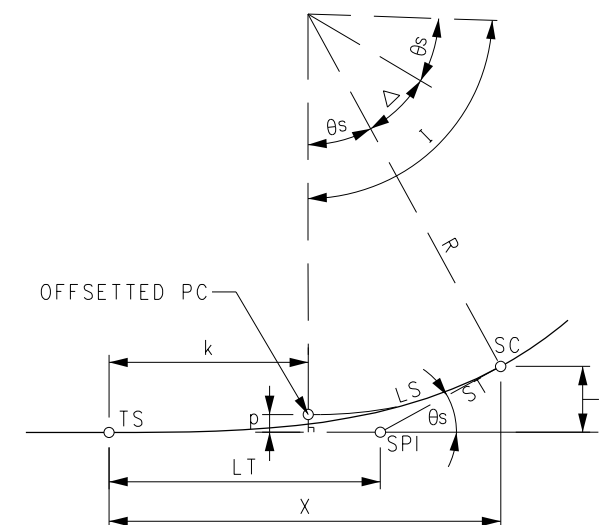
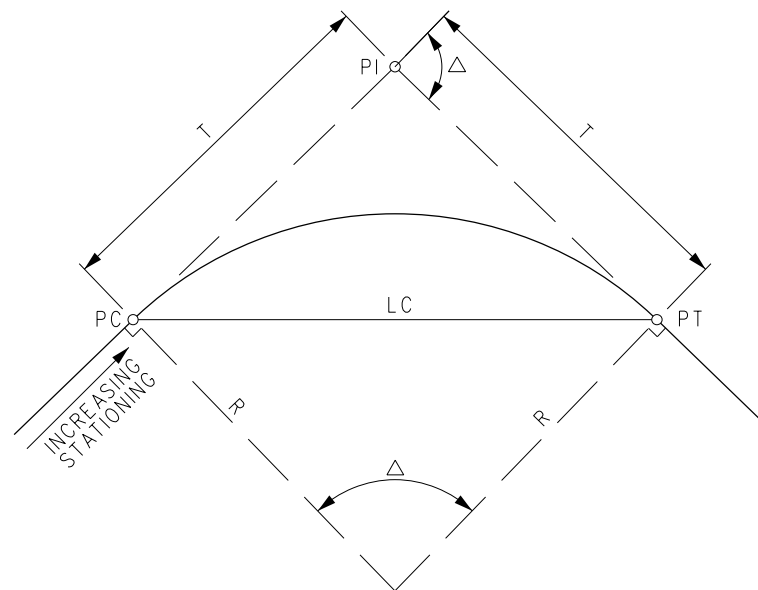
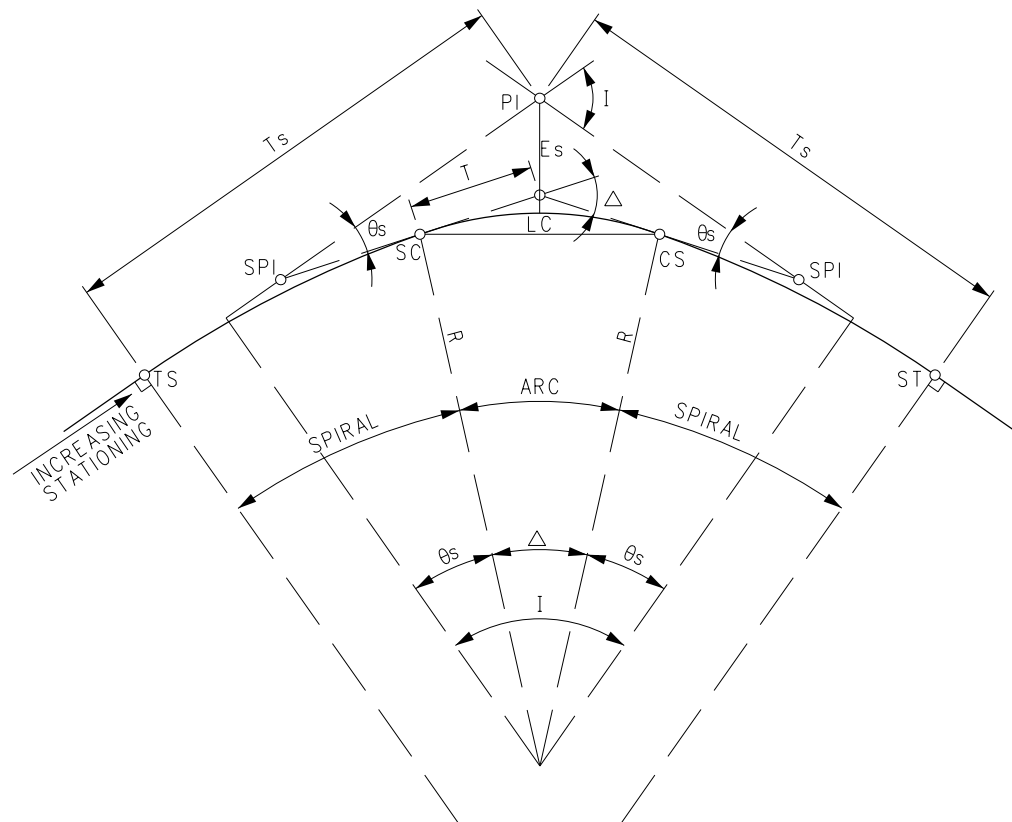
NOTES:

1. GRADING SHALL EXTEND FOR MINIMUM 5' ON BOTH SIDES OF THE SIDES OF THE HOUSE.
2. ALL HOUSES SHALL BE 25' CLEAR OF THE NEAREST TRACK.

CROSS SECTION -  
RETAINED SIGNAL HOUSE

N.T.S

D  
CK-013



|   |   |                       |
|---|---|-----------------------|
| <div style="text-align: center;"> <h1>ANAHEIM CANYON<br/>METROLINK STATION PROJECT</h1> <h2>HORIZONTAL CURVE GEOMETRY</h2> </div> | CONTRACT NO. C-4-1977<br>DRAWING NO. CK-020 |                       |
|   | REVISION                                    | SHEET NO.<br>18 OF 71 |
|   | SCALE<br>NONE                               |                       |
|   |   |                       |



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DESIGNED BY  
J. GONZALEZ  
DRAWN BY  
J. GONZALEZ  
CHECKED BY  
A. BOSCH  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

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SUBMITTAL  
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TRANSPORTATION  
AUTHORITY**

SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

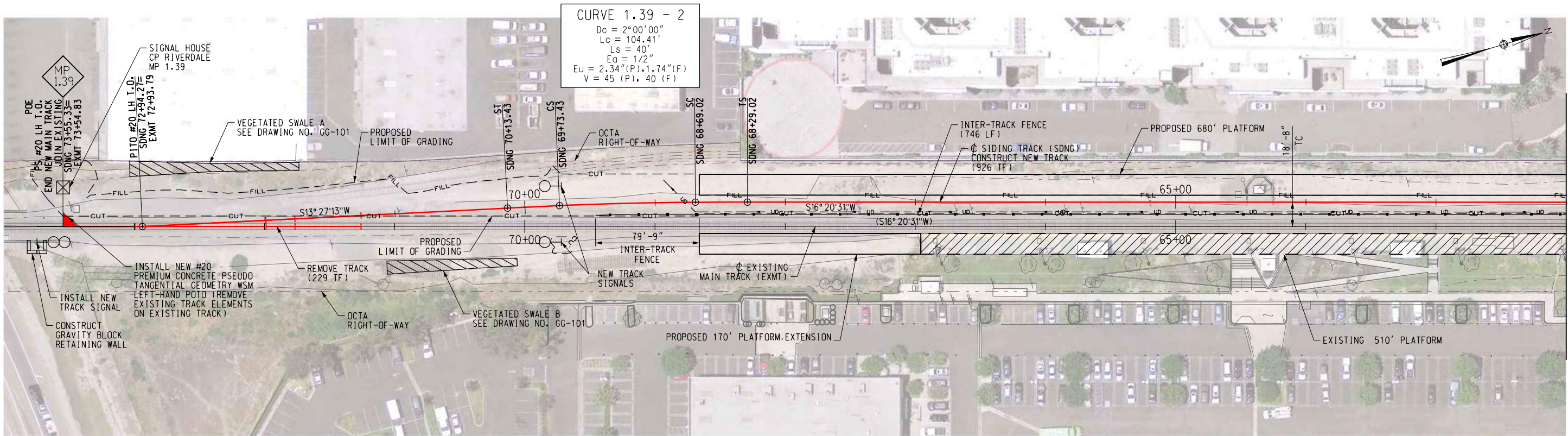
**ANAHEIM CANYON  
METROLINK STATION PROJECT**

GEOMETRY TABLES

CONTRACT NO. C-4-1977  
DRAWING NO. CK-021  
REVISION SHEET NO.  
19 OF 71  
SCALE NONE

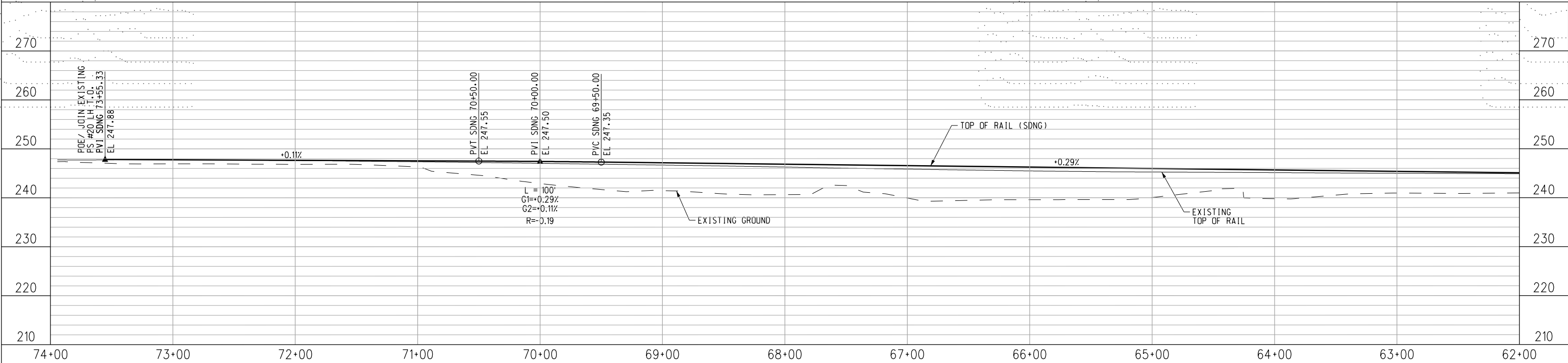
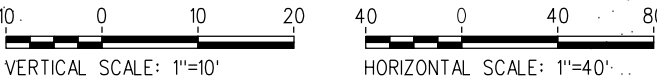
TO ORANGE, CA  
RR WEST

TO RIVERSIDE, CA  
RR EAST



MATCH LINE - MTRK 62+00  
SEE DRAWING CK-102

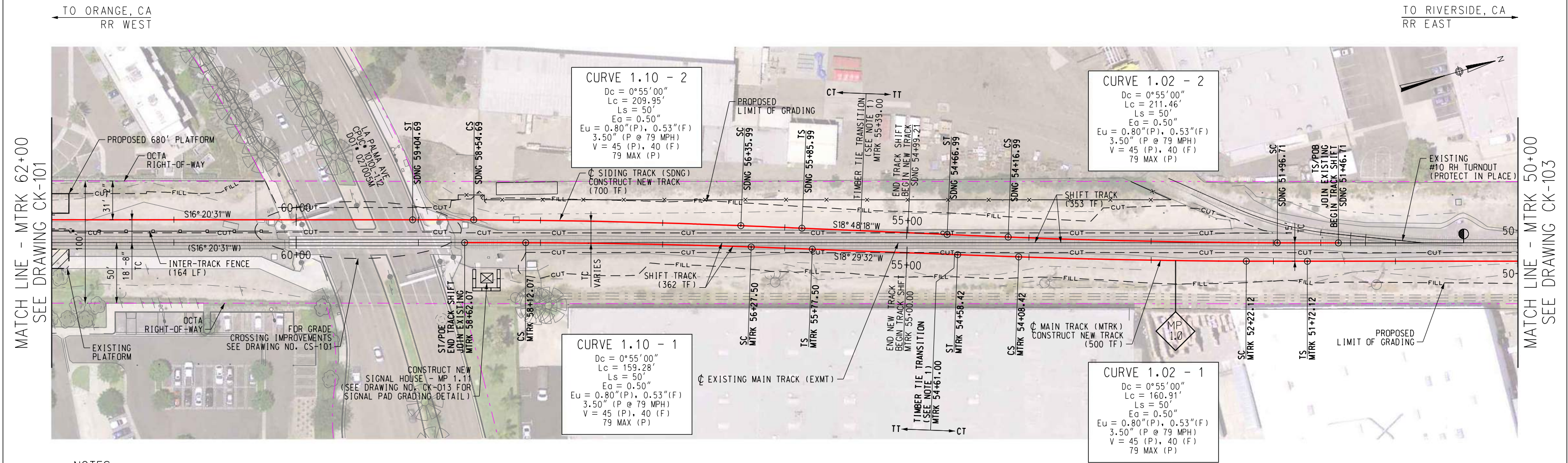
PLAN



PROFILE

|                             |      |  |                            |  |   |  |   |   |                                      |
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| <b>NOT FOR CONSTRUCTION</b> |      | <b>INFORMATION CONFIDENTIAL:</b><br>All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority. | DESIGNED BY<br>J. GONZALEZ | <b>30%<br/>SUBMITTAL</b><br>NOT FOR CONSTRUCTION |  <b>METROLINK®</b> |  <b>STV</b> |  <b>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</b> | <b>ANAHEIM CANYON<br/>METROLINK STATION PROJECT</b><br>TRACK PLAN & PROFILE<br>MTRK 73+55 TO MTRK 62+00<br>SHEET 1 OF 4 | CONTRACT NO.<br>C-4-1977             |
|                             |      |  | DRAWN BY<br>J. GONZALEZ    |  |   |  |   |   | CHECKED BY<br>A. SOKOL               |
| REV.                        | DATE | BY   | SUB                        | APP.   | DATE<br>01-20-2017  | SUBMITTED: _____<br>PROJECT MANAGER  |   | APPROVED: _____   | REVISION<br>SHEET NO.<br>20 OF 71    |
|                             |      |  |                            |  |   |  |   |   | SCALE<br>HORIZ 1"=40'<br>VERT 1"=10' |

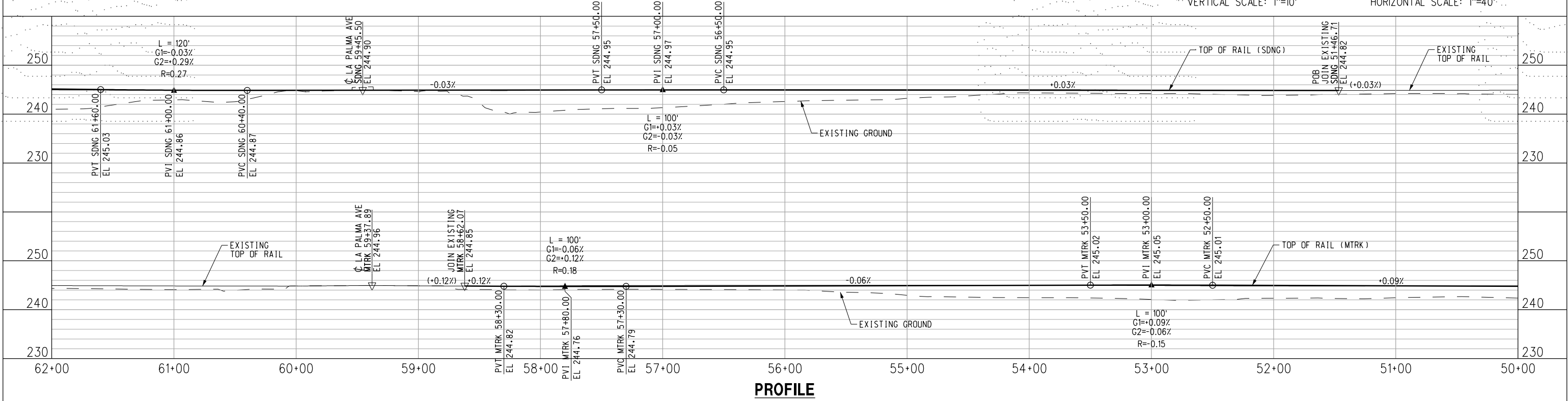
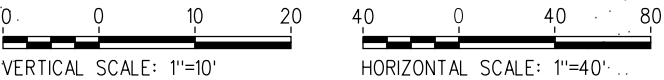




NOTES:

1. TIMBER TIE TRANSITION, INSTALL 24- 10' TIMBER TIES (39 TF) PER SCRRR STD PLAN ES 2351

PLAN



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DESIGNED BY  
J. GONZALEZ

DRAWN BY  
J. GONZALEZ

CHECKED BY  
A. SOKOL

APPROVED BY  
A. SOKOL

DATE  
01-20-2017

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 **STV** 100 Years

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PROJECT MANAGER

APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**

TRACK PLAN & PROFILE  
MTRK 62+00 TO MTRK 50+00  
SHEET 2 OF 4

CONTRACT NO. C-4-1977

DRAWING NO. CK-102

REVISION SHEET NO. 21 OF 71

SCALE HORIZ 1"=40'  
VERT 1"=10'



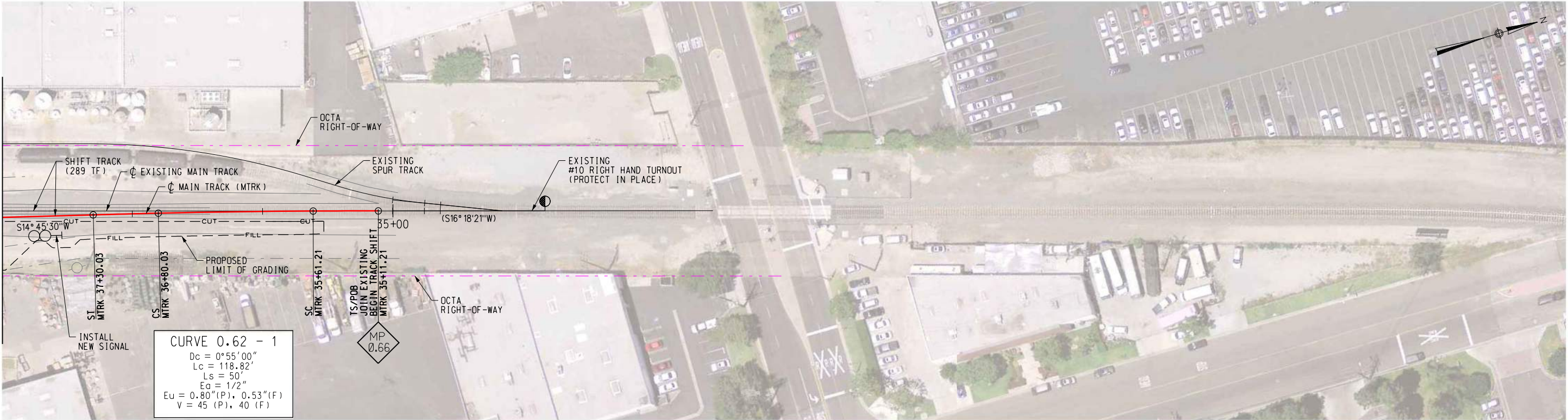




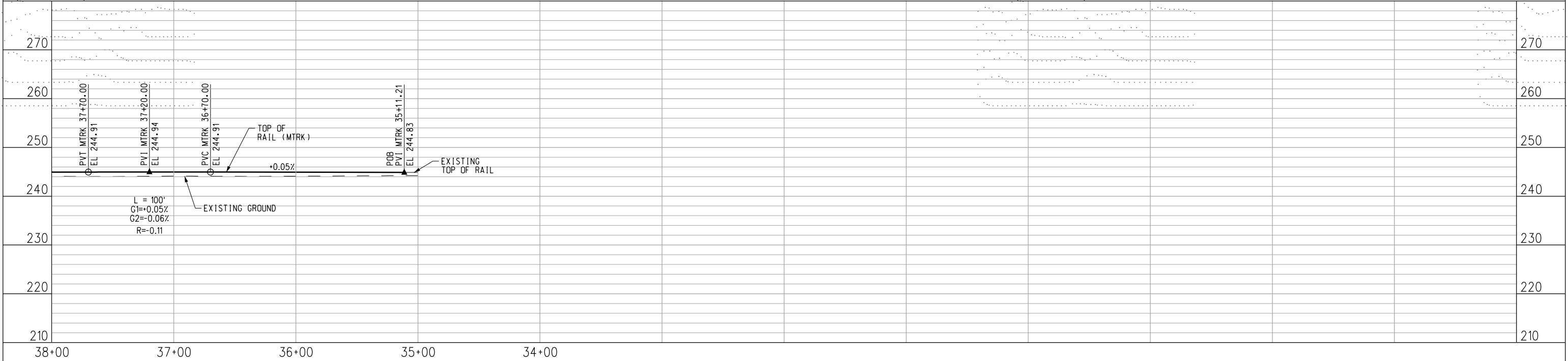
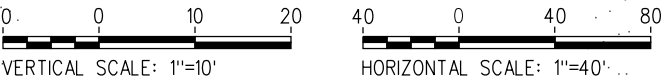
TO ORANGE, CA  
RR WEST

TO RIVERSIDE, CA  
RR EAST

MATCH LINE - MTRK 38+00  
SEE DRAWING CK-103



PLAN



PROFILE

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DESIGNED BY  
J. GONZALEZ

DRAWN BY  
J. GONZALEZ

CHECKED BY  
A. SOKOL

APPROVED BY  
A. SOKOL

DATE  
01-20-2017

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STV 100 Years

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TRANSPORTATION  
AUTHORITY

SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

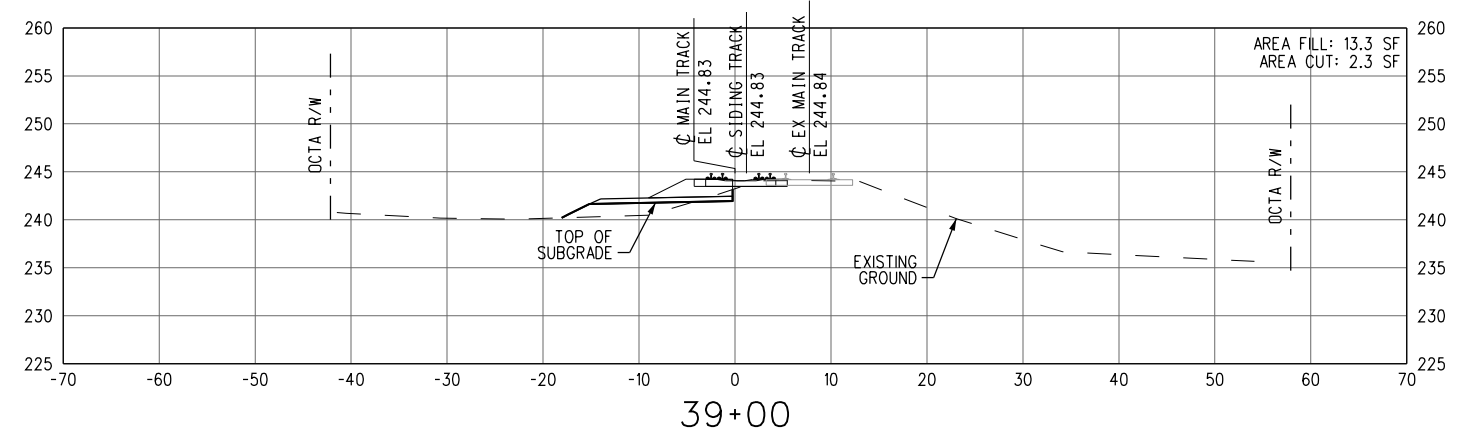
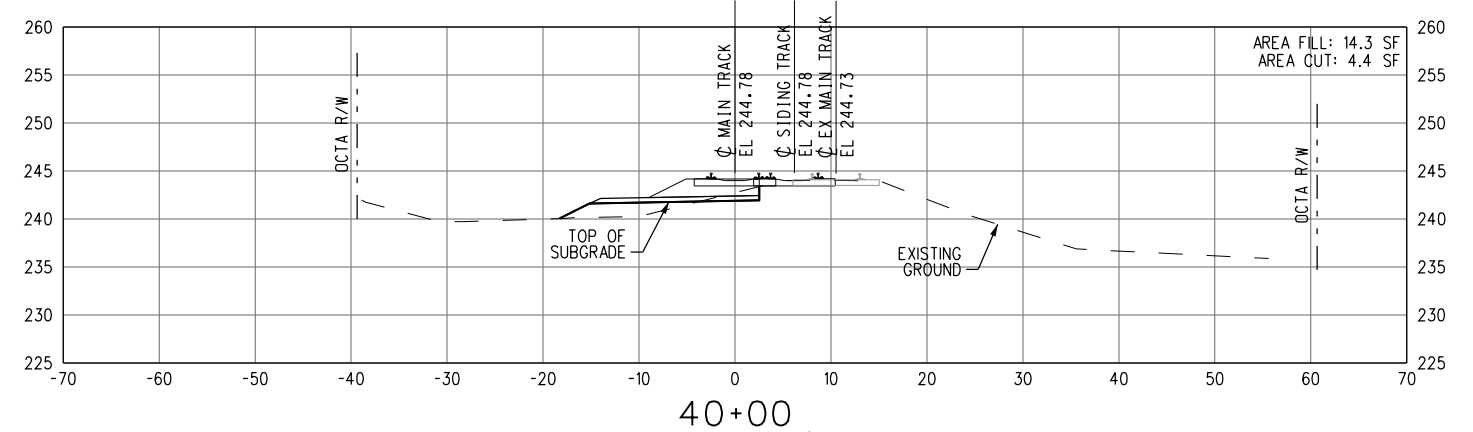
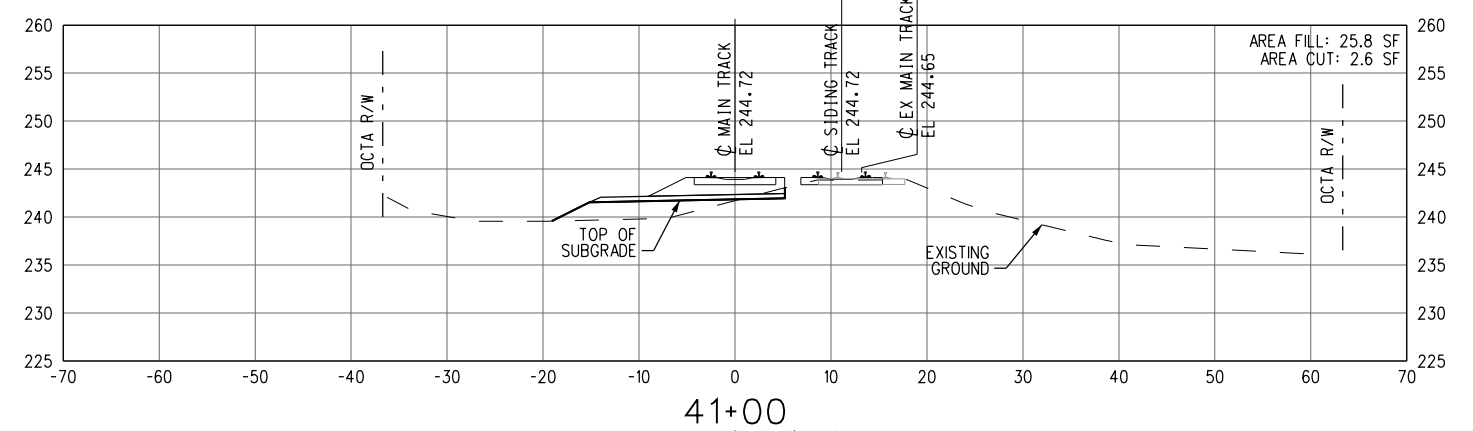
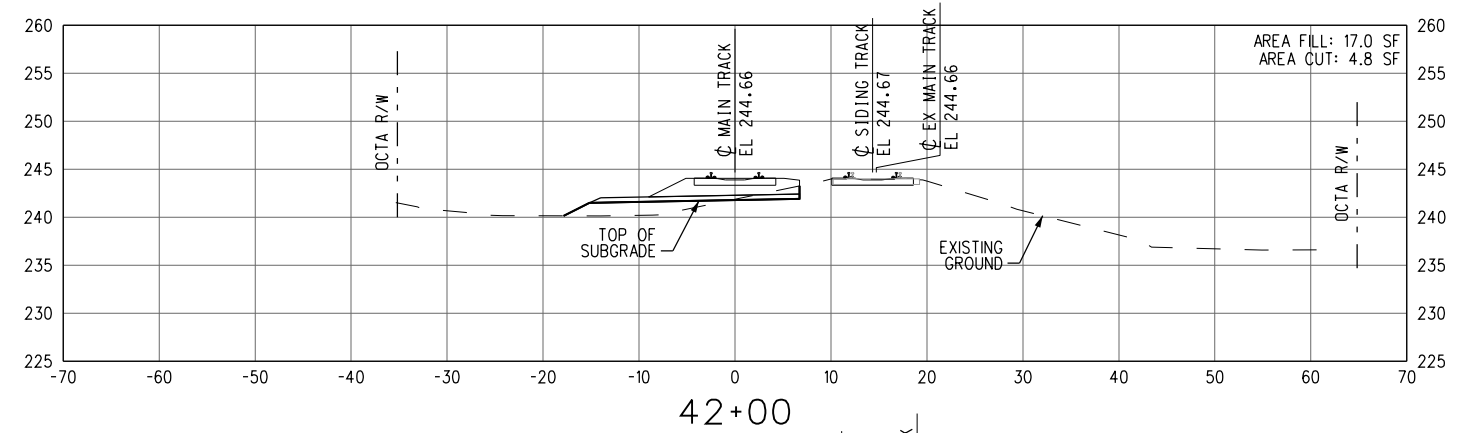
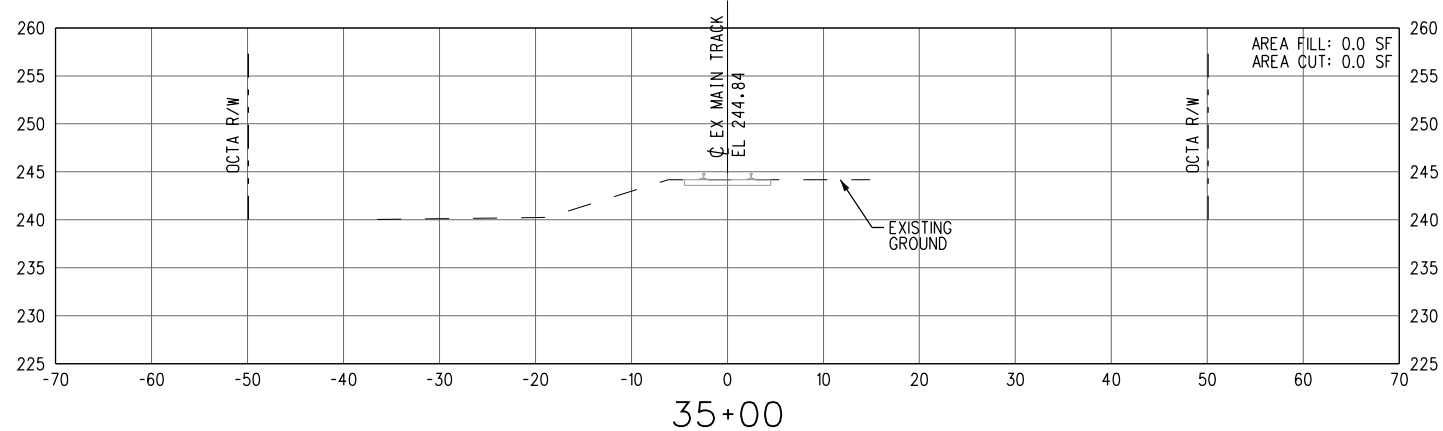
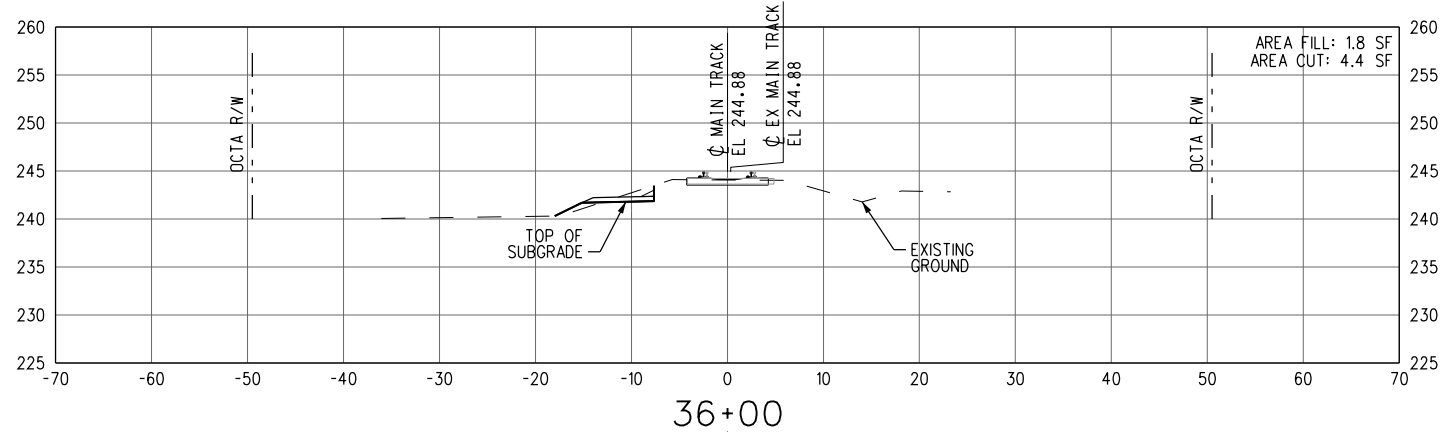
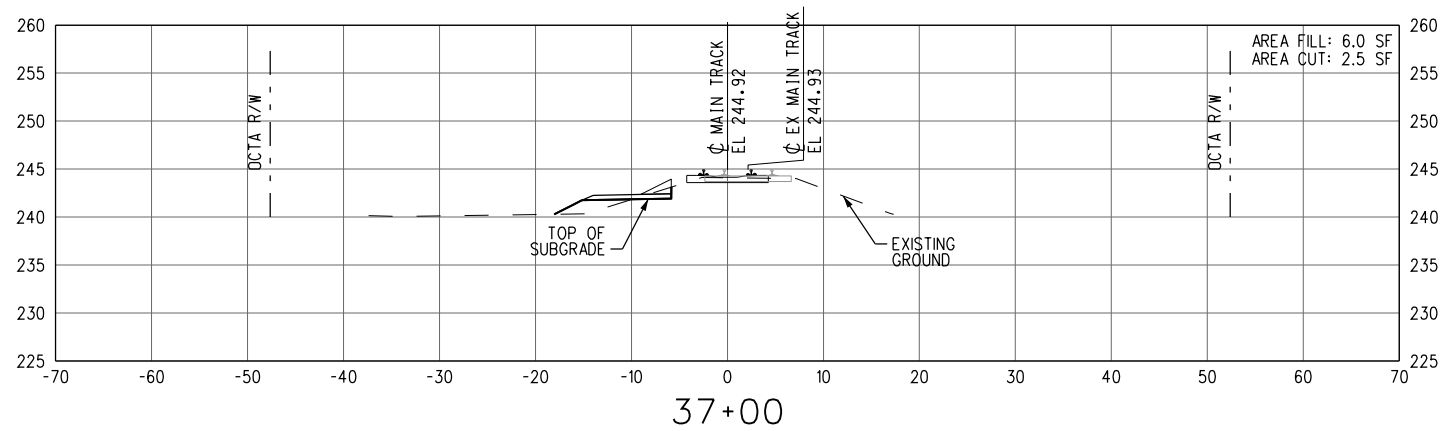
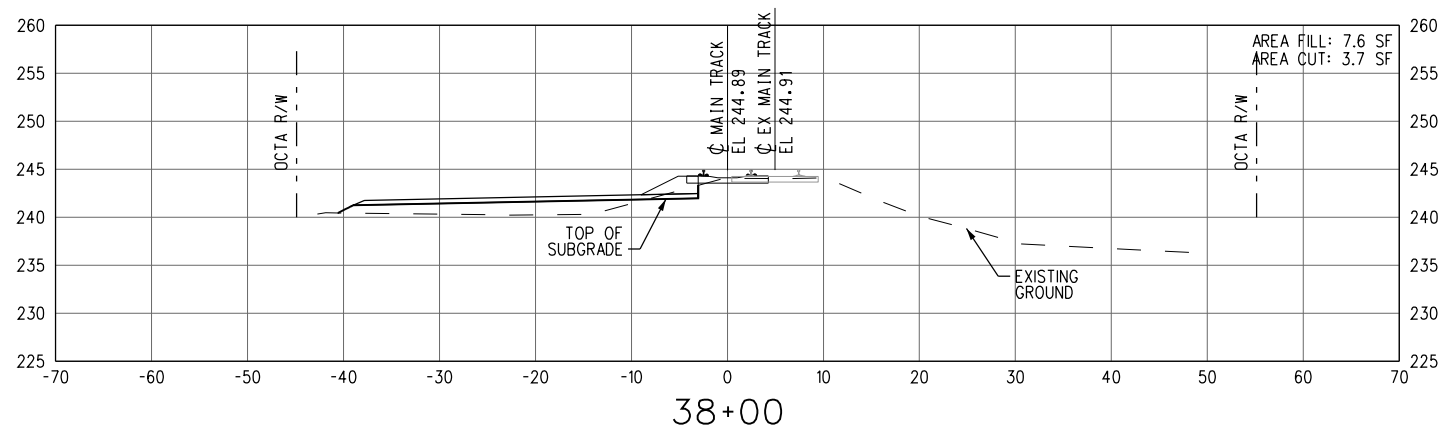
ANAHEIM CANYON  
METROLINK STATION PROJECT  
TRACK PLAN & PROFILE  
MTRK 38+00 TO MTRK 35+11  
SHEET 4 OF 4

CONTRACT NO. C-4-1977

DRAWING NO. CK-104

REVISION SHEET NO. 23 OF 71

SCALE HORIZ 1"=40'  
VERT 1"=10'

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|             |             |
|-------------|-------------|
| DESIGNED BY | J. GONZALEZ |
| DRAWN BY    | J. GONZALEZ |
| CHECKED BY  | A. BOSCH    |
| APPROVED BY | A. SOKOL    |
| DATE        | 01-20-2017  |

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**ANAHEIM CANYON**  
**METROLINK STATION PROJECT**  
CROSS SECTIONS  
MTRK 35+00 TO MTRK 42+00  
SHEET 1 OF 5

|              |                             |          |
|--------------|-----------------------------|----------|
| CONTRACT NO. |                             | C-4-1977 |
| DRAWING NO.  |                             |          |
| CK-201       |                             |          |
| REVISION     | SHEET NO.                   |          |
|              | 24 OF 71                    |          |
| SCALE        | HORIZ 1"=10'<br>VERT 1"=10' |          |



gonzajj

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|-------------|-------------|
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| DRAWN BY    | J. GONZALEZ |
| CHECKED BY  | A. BOSCH    |
| APPROVED BY | A. SOKOL    |
| DATE        | 01-20-2017  |

30%  
SUBMITTAL  
NOT FOR CONSTRUCTION

**METROLINK®**

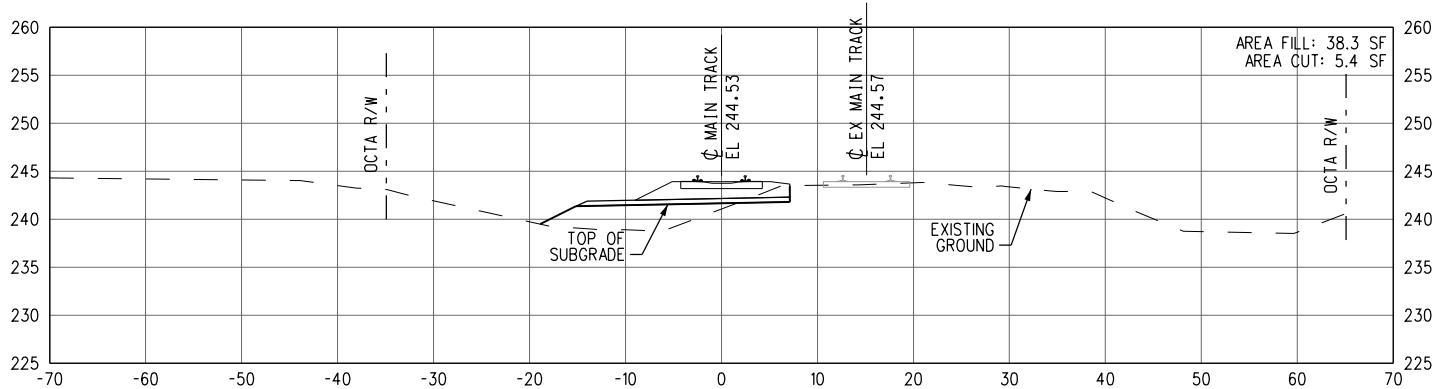


SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

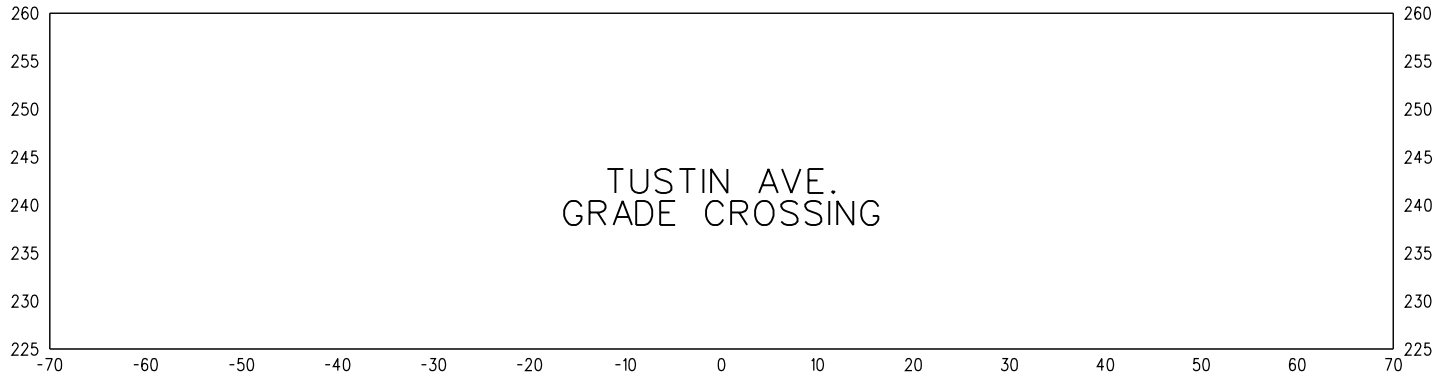
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
CROSS SECTIONS  
MTRK 43+00 TO MTRK 50+00  
SHEET 2 OF 5

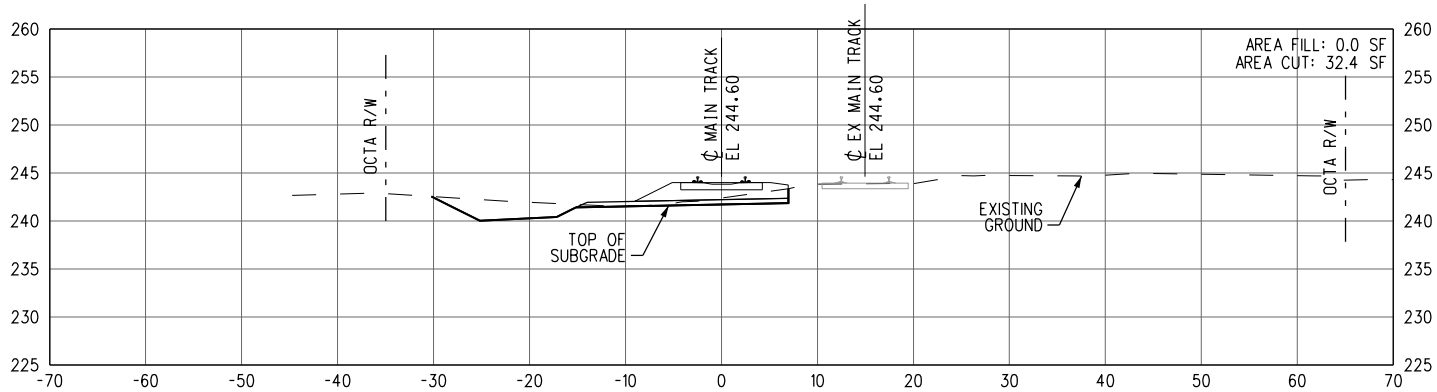
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|--------------|-----------------------------|
| CONTRACT NO. | C-4-1977                    |
| DRAWING NO.  | CK-202                      |
| REVISION     | SHEET NO.<br>25 OF 71       |
| SCALE        | HORIZ 1"=10'<br>VERT 1"=10' |



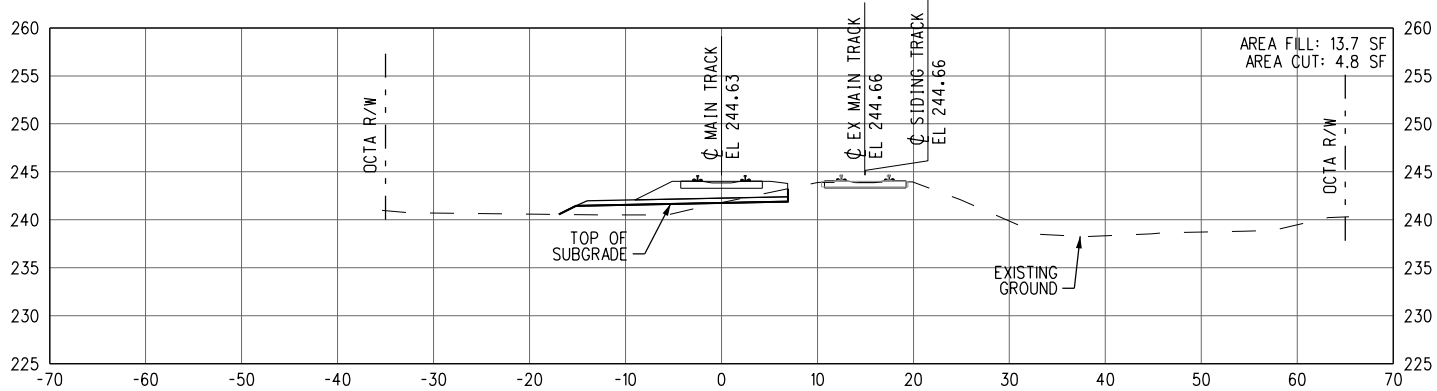
46+00



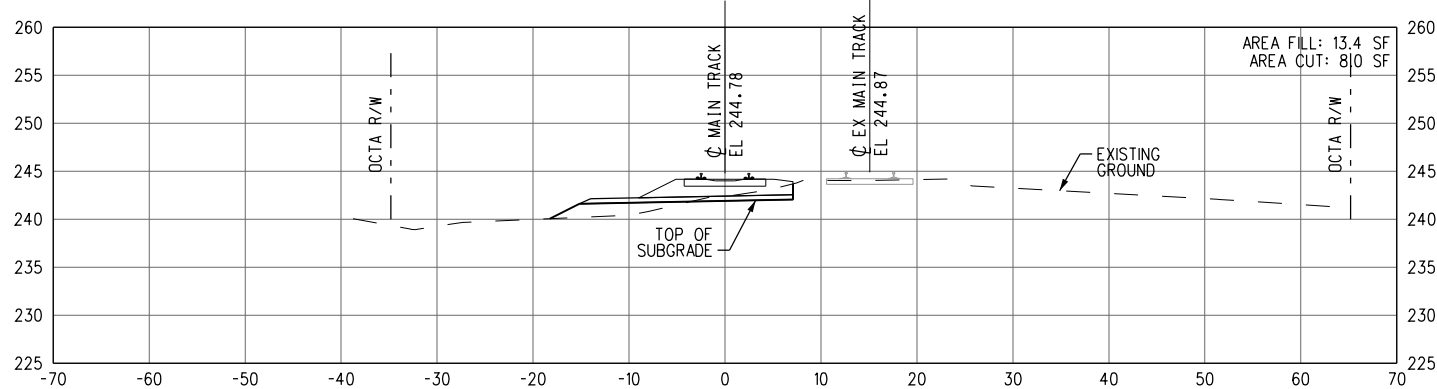
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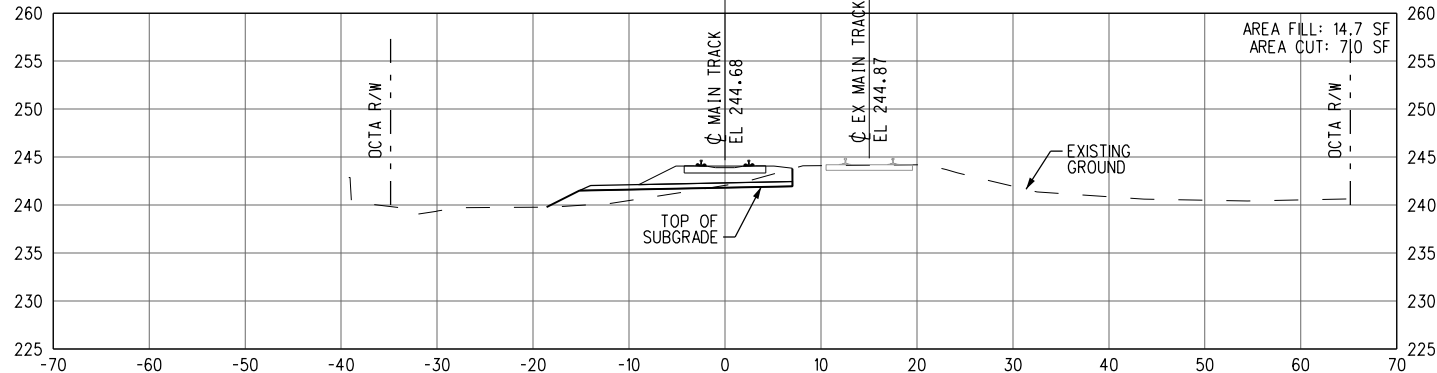
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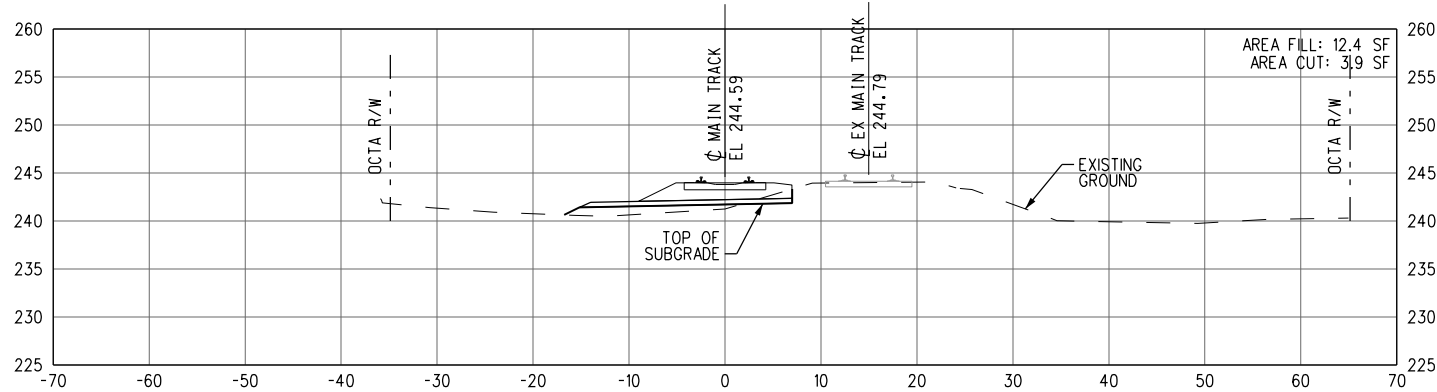
43+00



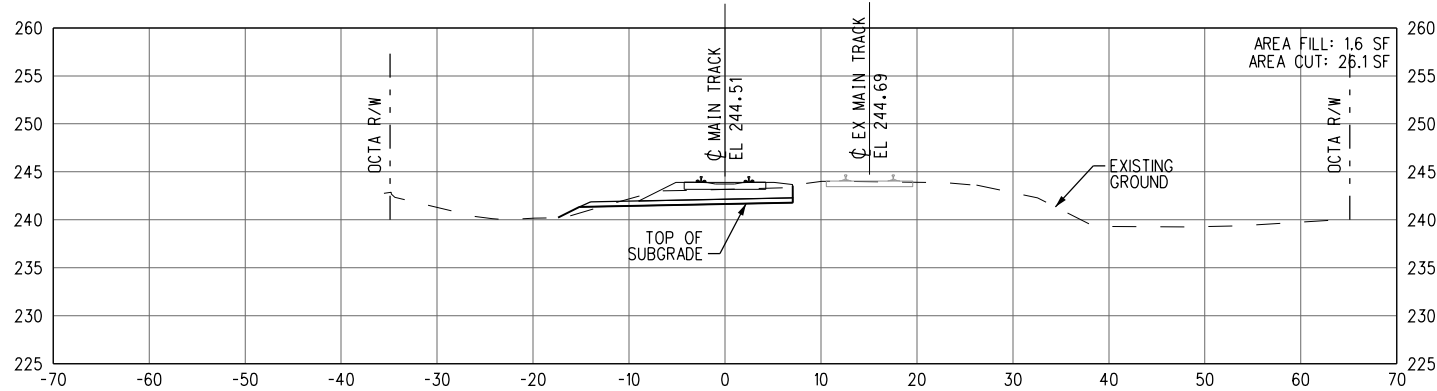
50+00



49+00



48+00



47+00

1/20/2017 7:48:32 AM gonzajj

1/20/2017 7:48:32 AM gonzajj

NOT FOR CONSTRUCTION

| REV. | DATE | BY | SUB. | APP. |
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DESIGNED BY  
J. GONZALEZ  
DRAWN BY  
J. GONZALEZ  
CHECKED BY  
A. BOSCH  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

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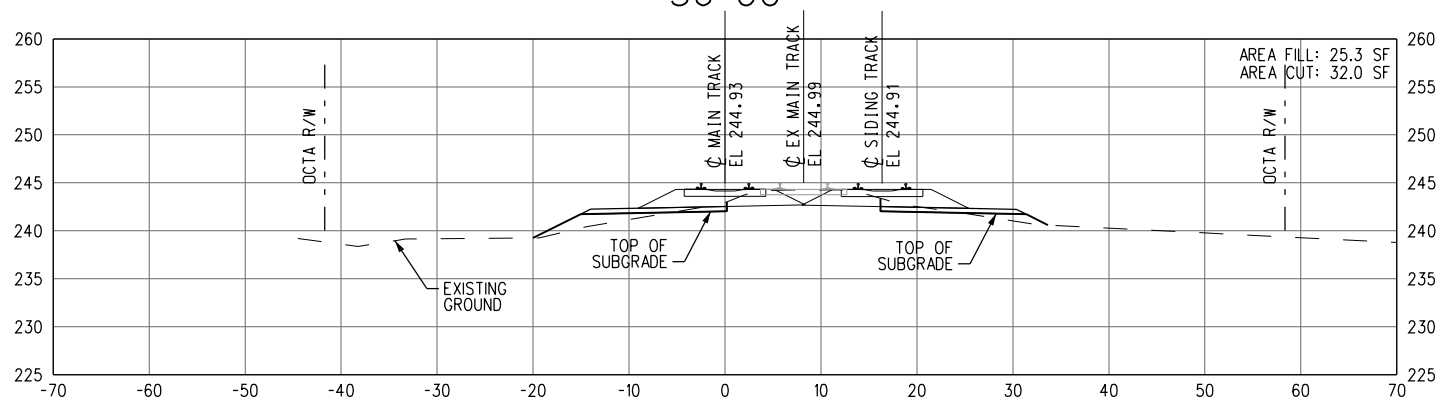
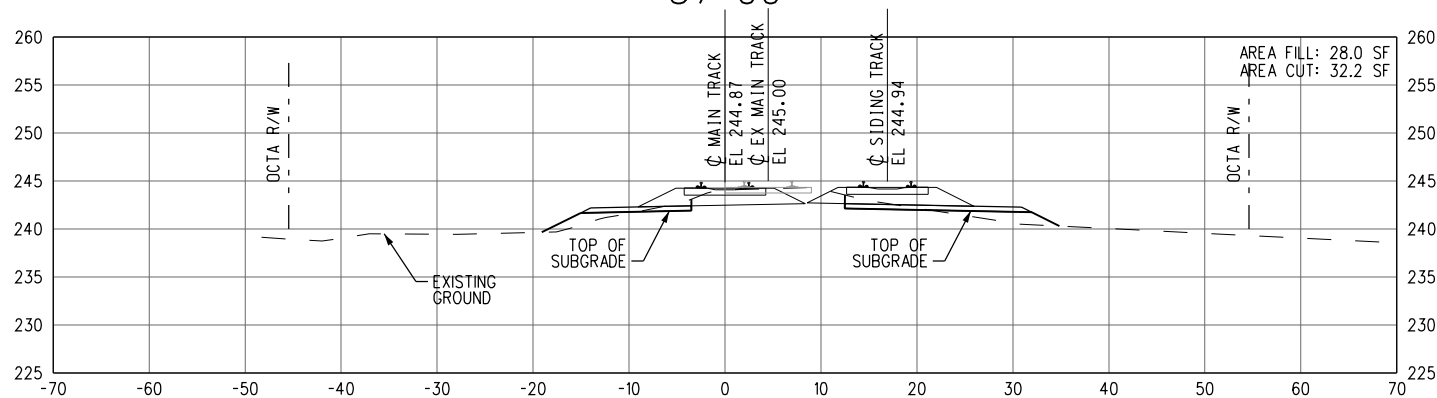
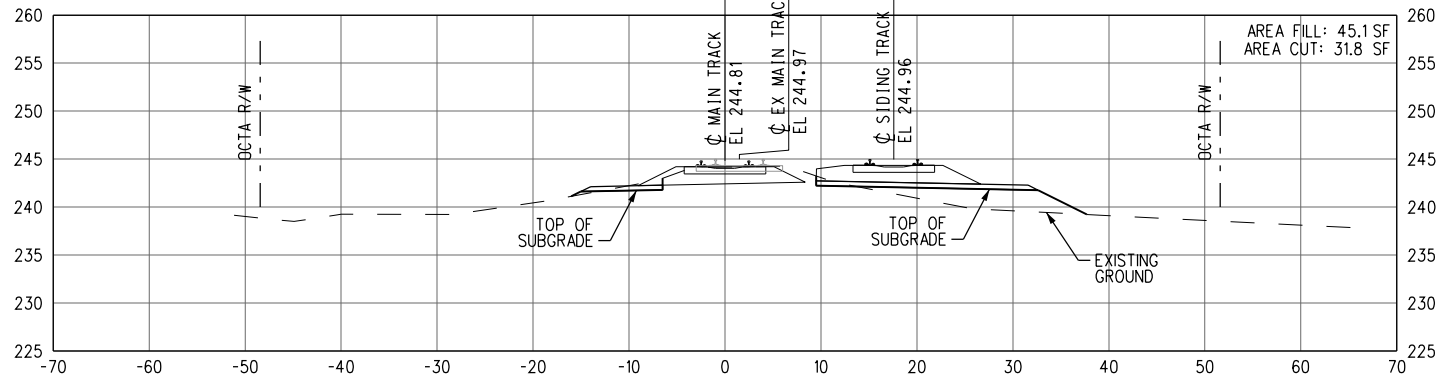
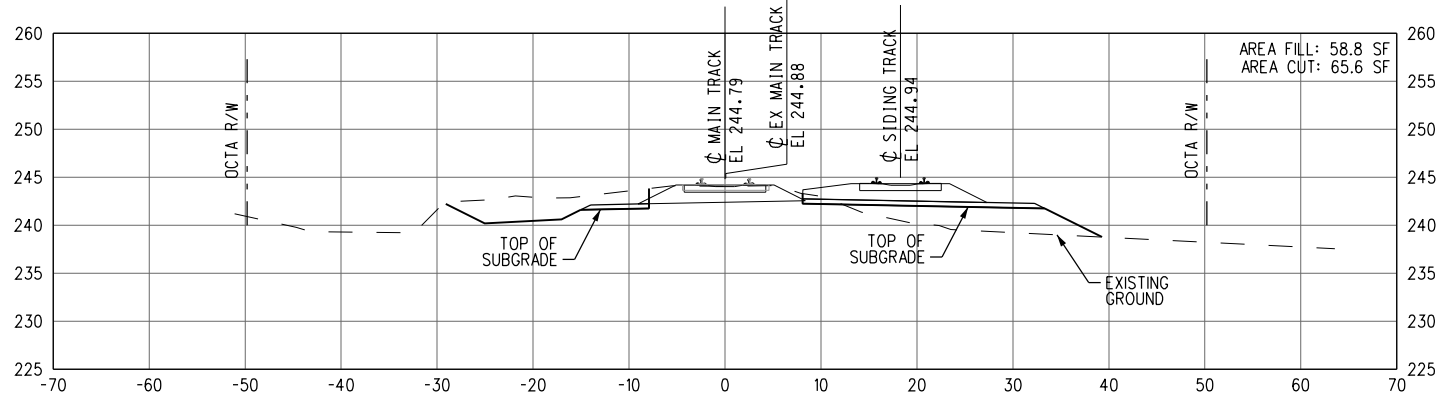
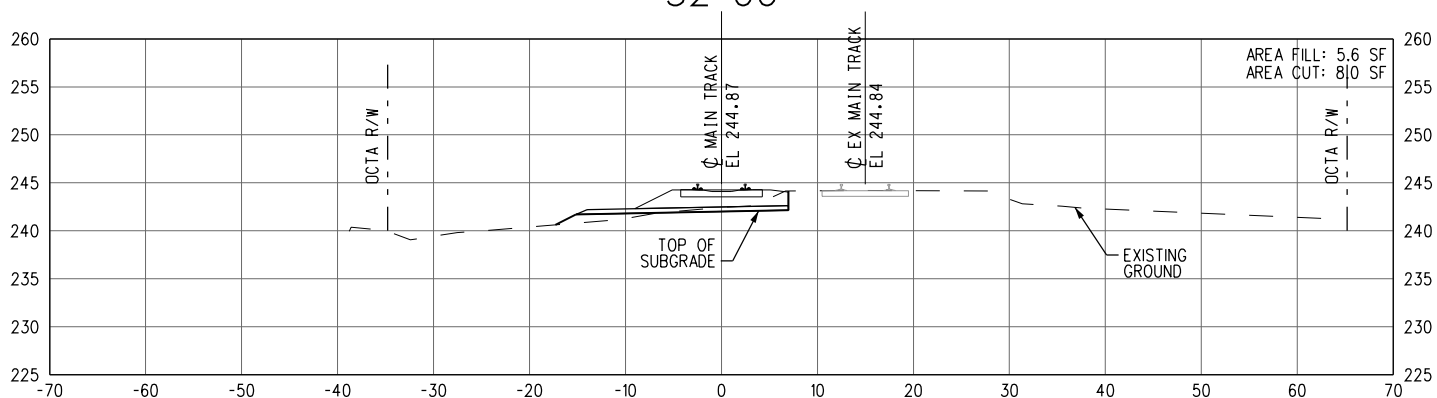
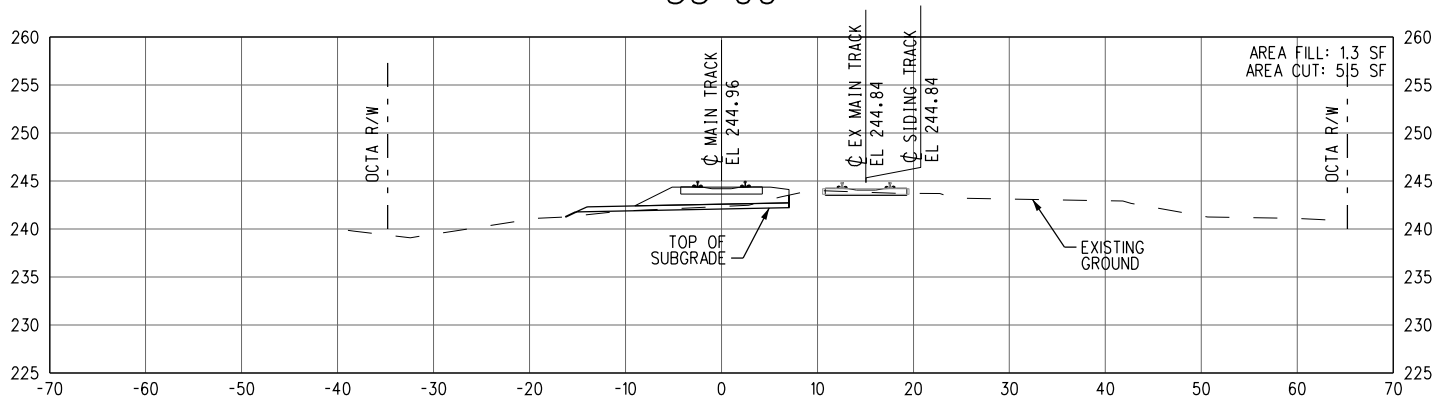
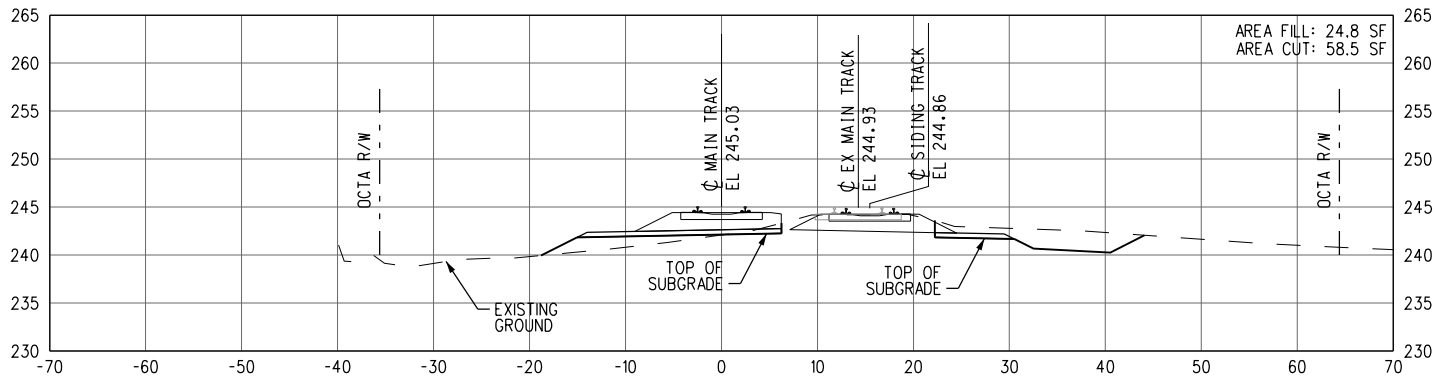
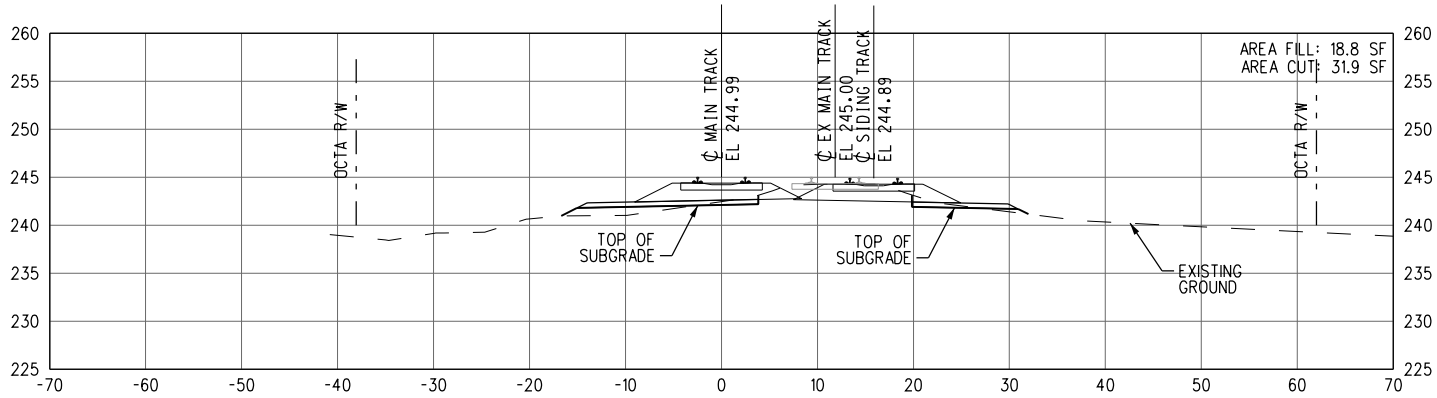


SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
CROSS SECTIONS  
MTRK 51+00 TO MTRK 58+00  
SHEET 3 OF 5

|              |                             |
|--------------|-----------------------------|
| CONTRACT NO. | C-4-1977                    |
| DRAWING NO.  | CK-203                      |
| REVISION     | SHEET NO.                   |
|              | 26 OF 71                    |
| SCALE        | HORIZ 1"=10'<br>VERT 1"=10' |



1/20/2017 7:48:33 AM gonzajl

1/20/2017 7:48:33 AM gonzajl


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| REV. | DATE | BY | SUB. | APP. |
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|             |             |
|-------------|-------------|
| DESIGNED BY | J. GONZALEZ |
| DRAWN BY    | J. GONZALEZ |
| CHECKED BY  | A. BOSCH    |
| APPROVED BY | A. SOKOL    |
| DATE        | 01-20-2017  |

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SUBMITTAL  
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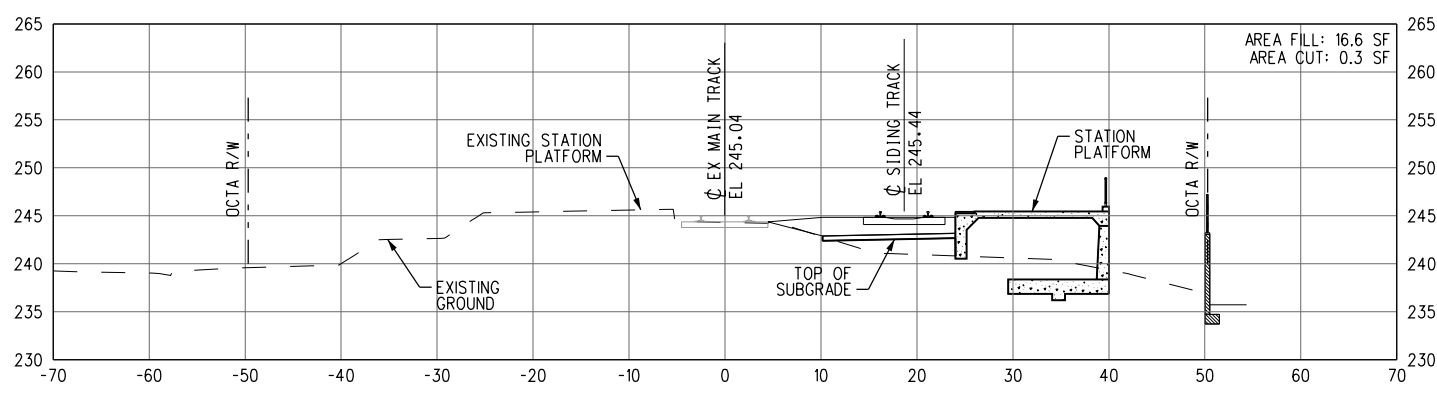
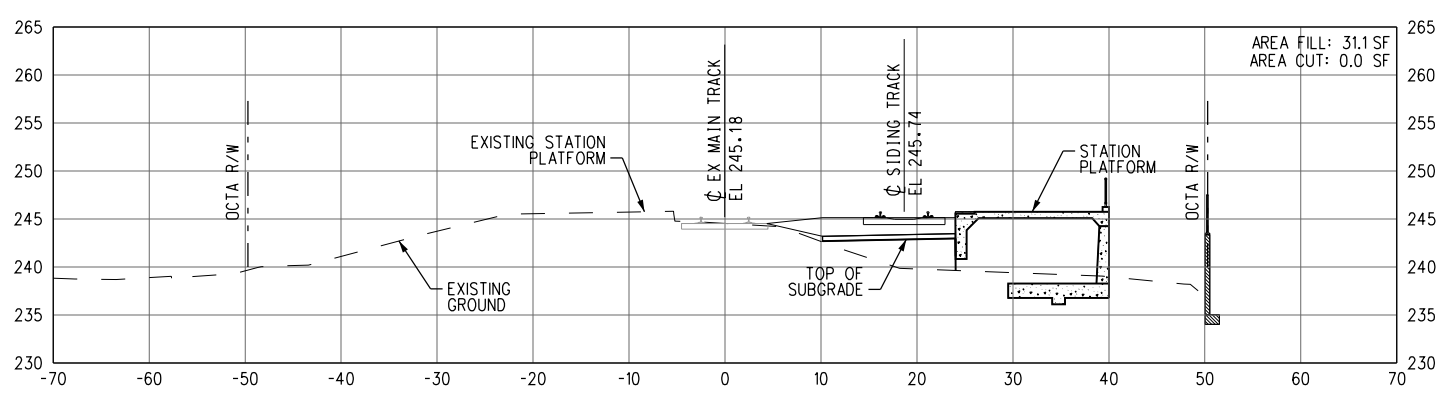
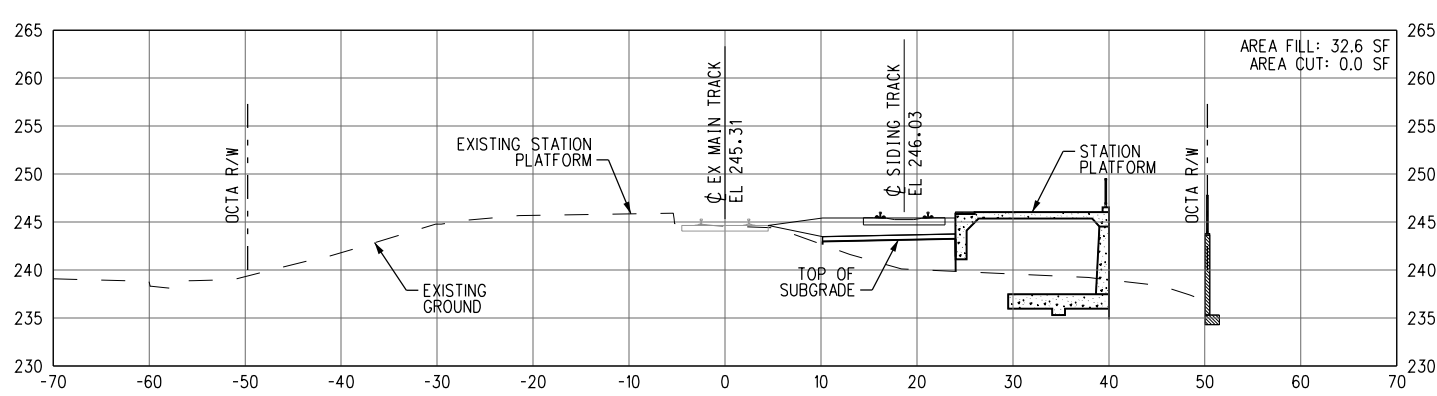
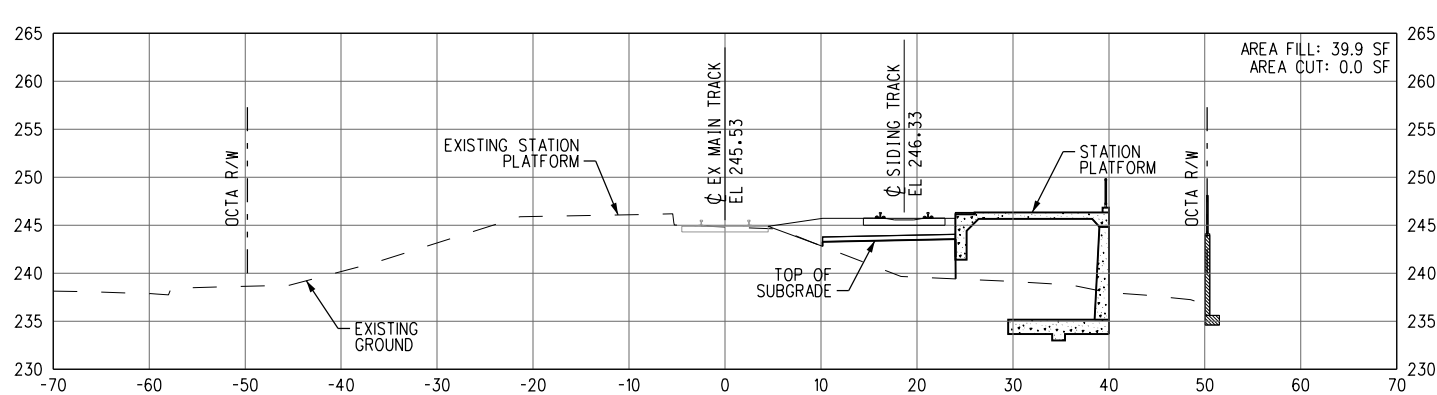
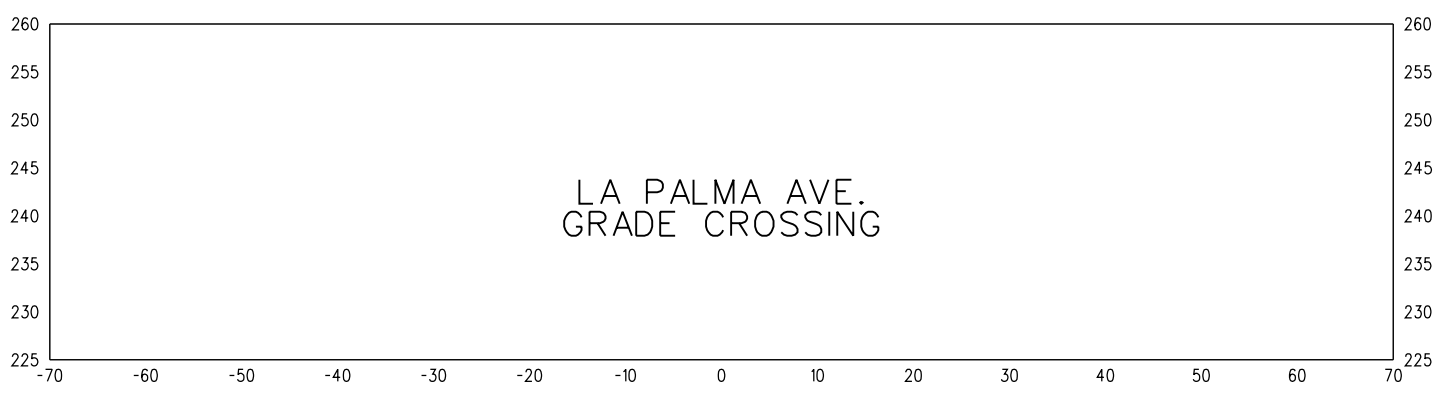
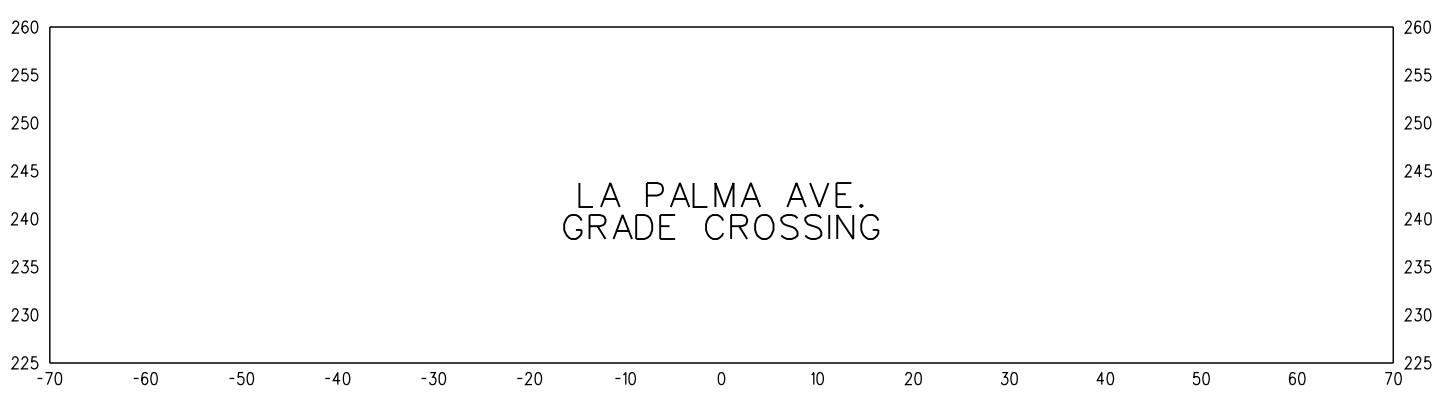
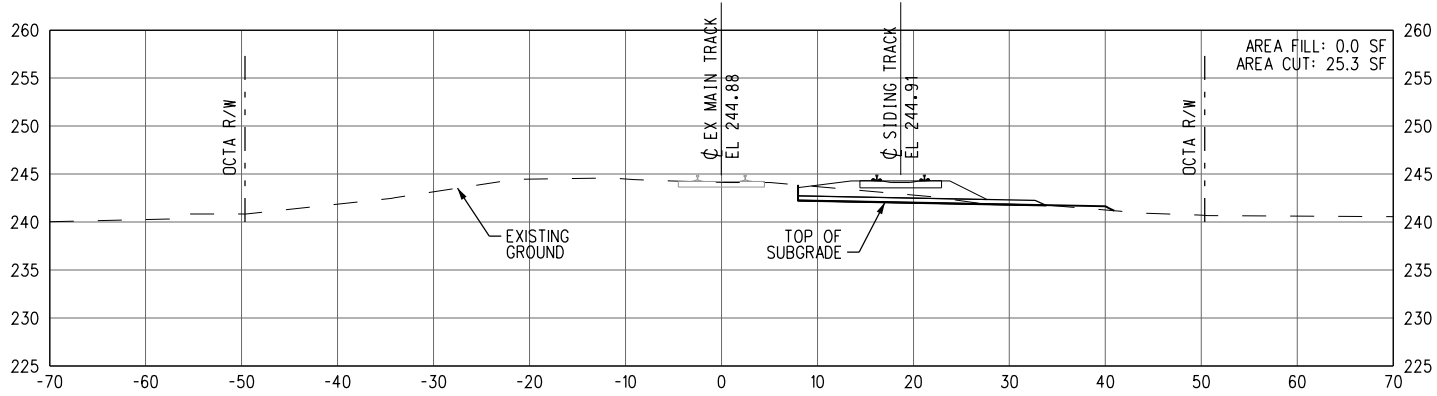
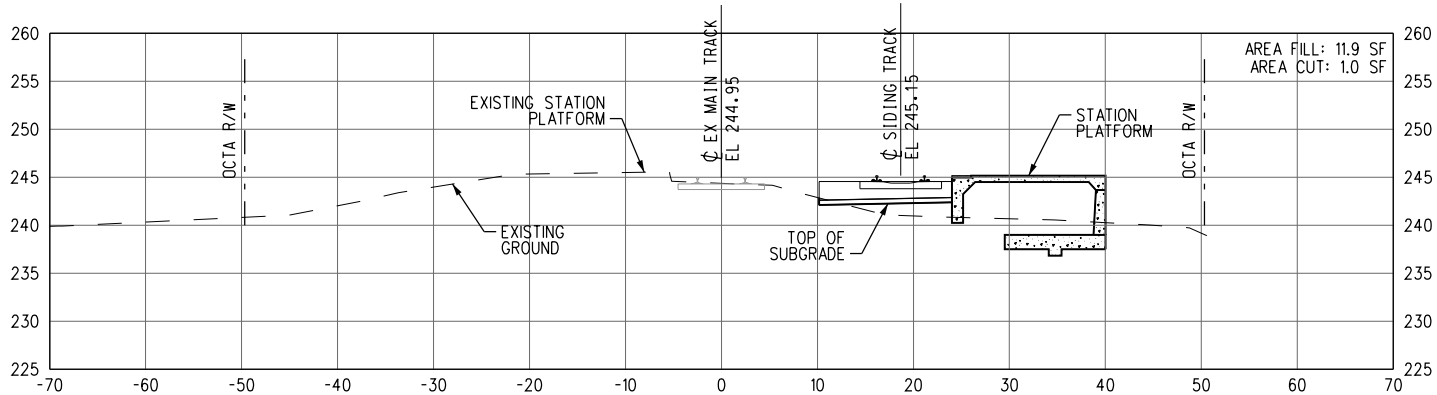


SUBMITTED: \_\_\_\_\_ PROJECT MANAGER

APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
CROSS SECTIONS  
MTRK 59+00 TO MTRK 66+00  
SHEET 4 OF 5

|              |                             |
|--------------|-----------------------------|
| CONTRACT NO. | C-4-1977                    |
| DRAWING NO.  | CK-204                      |
| REVISION     | SHEET NO.                   |
|              | 27 OF 71                    |
| SCALE        | HORIZ 1"=10'<br>VERT 1"=10' |





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DRAWN BY  
J. GONZALEZ  
CHECKED BY  
A. BOSCH  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

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SUBMITTAL  
NOT FOR CONSTRUCTION

**METROLINK®**

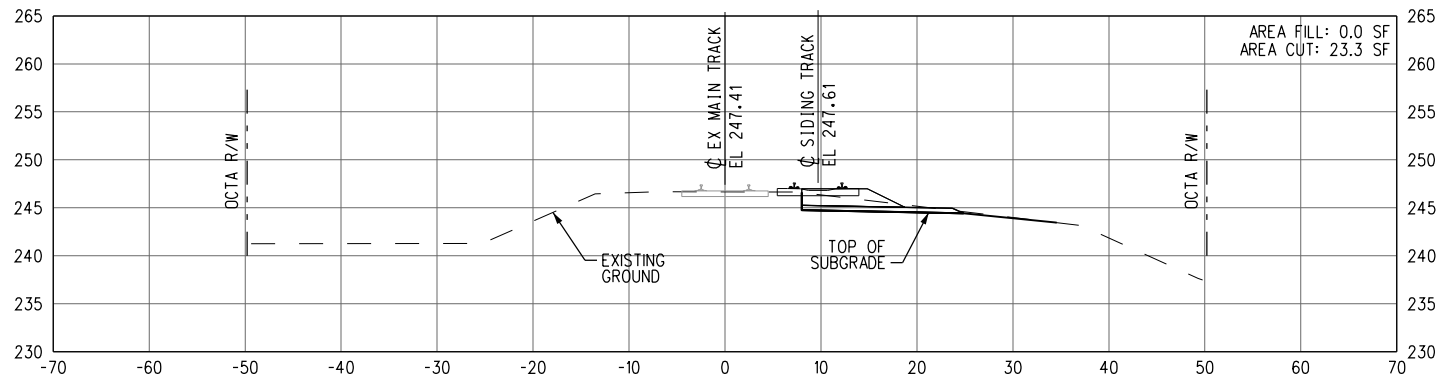
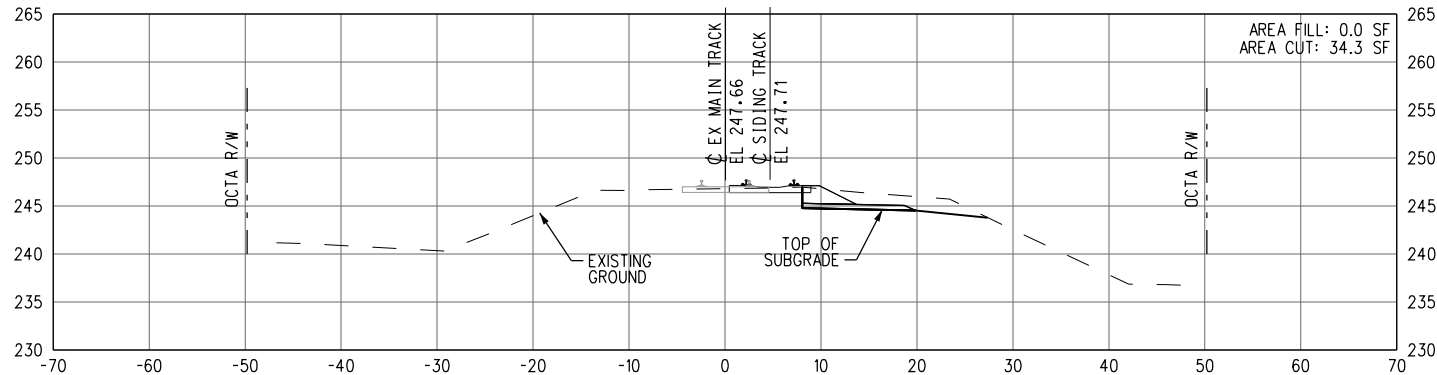
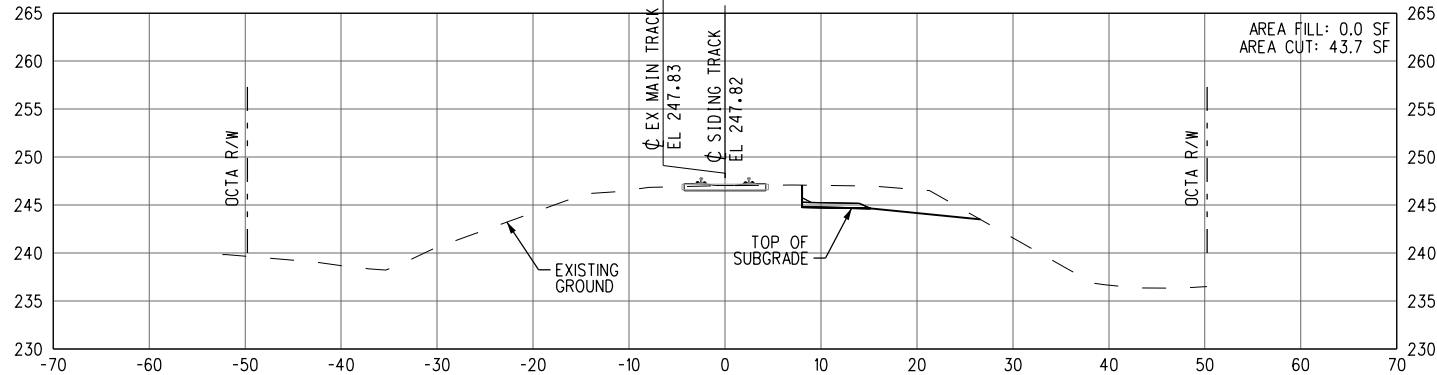
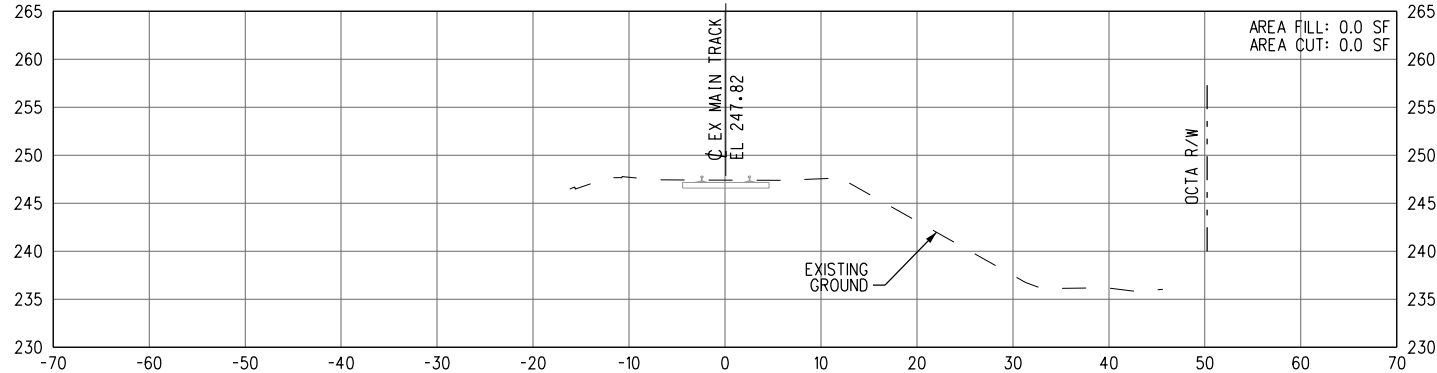
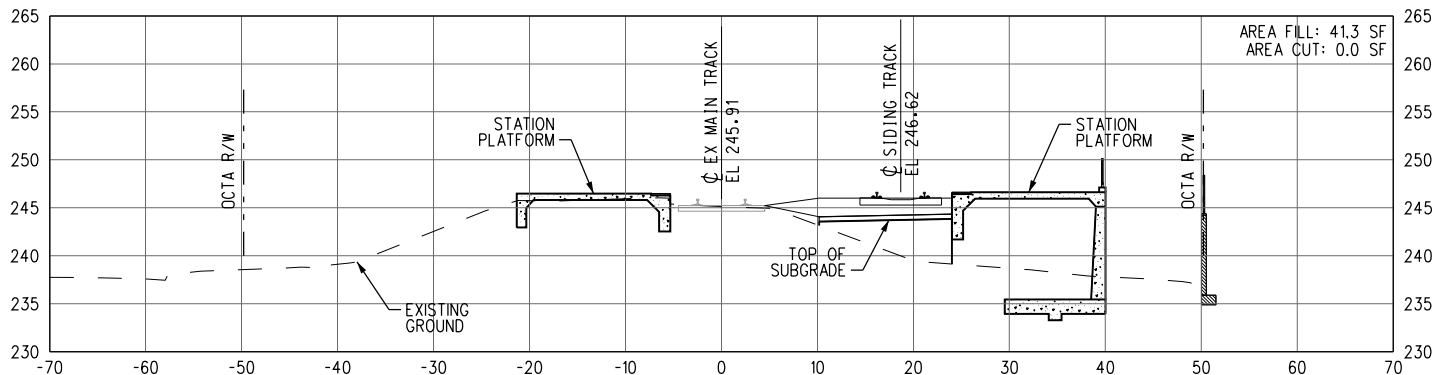
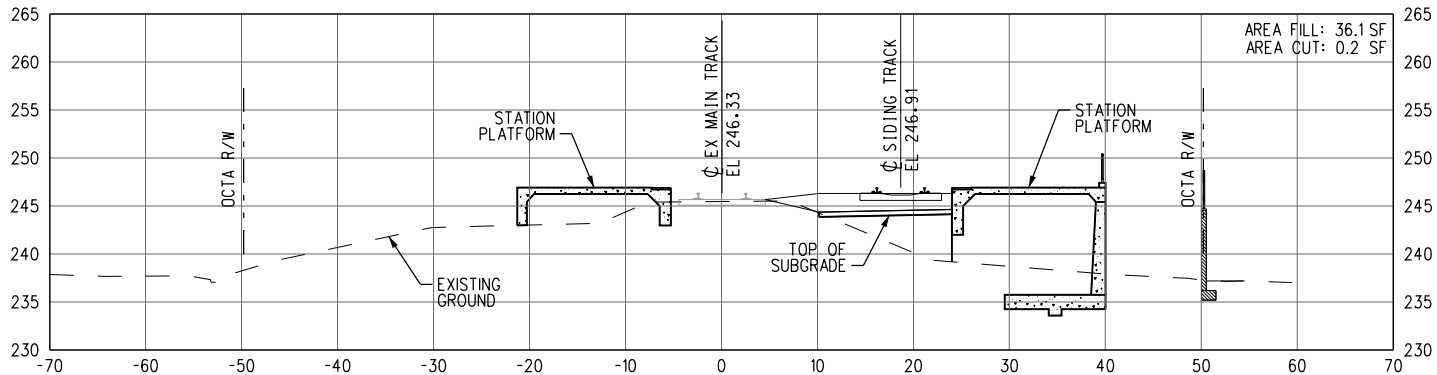
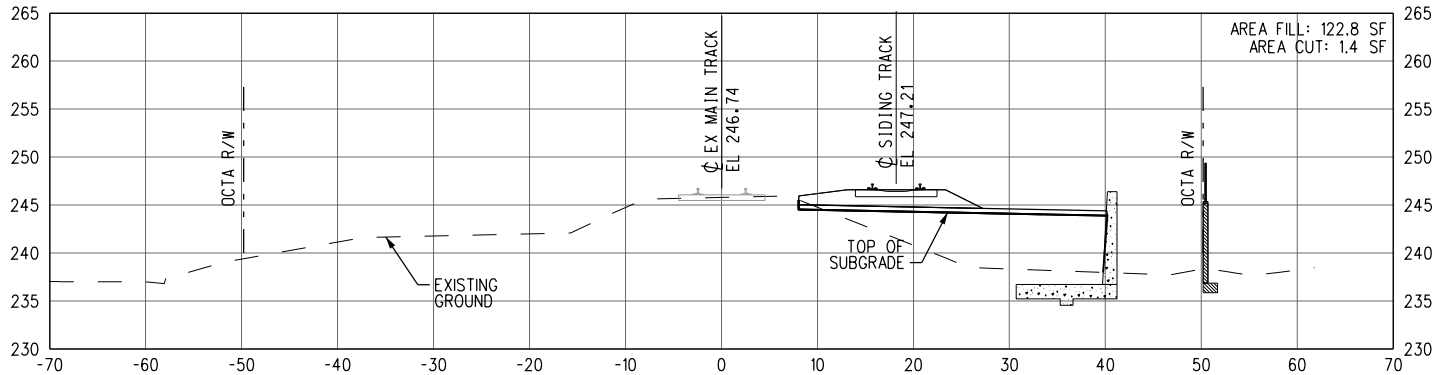
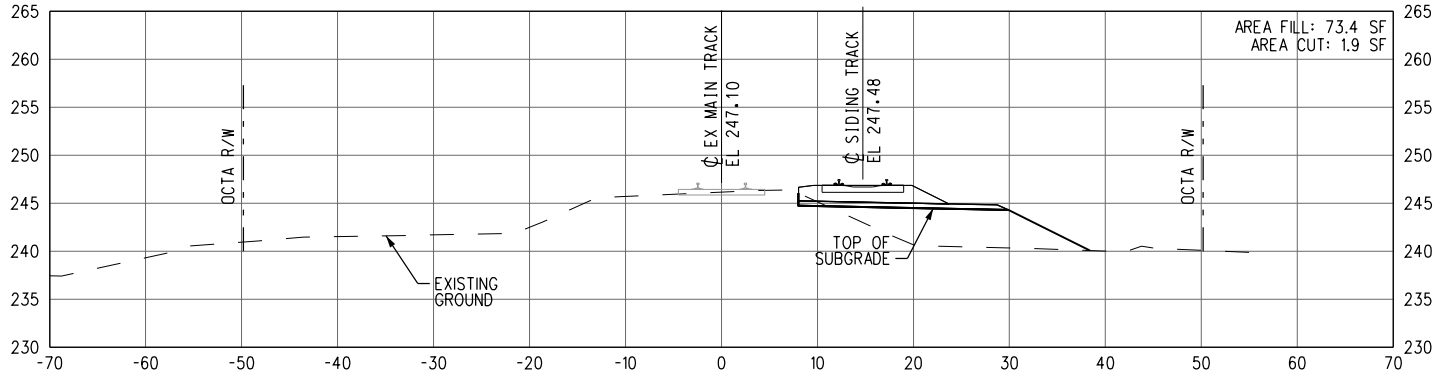


SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

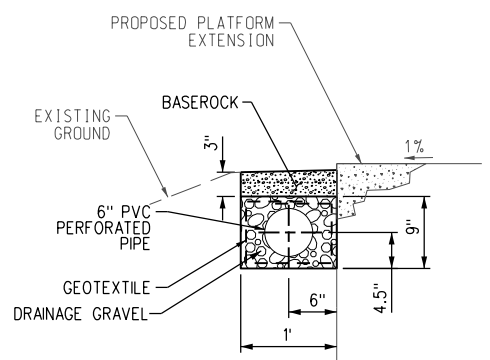
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
CROSS SECTIONS  
MTRK 67+00 TO MTRK 74+00  
SHEET 5 OF 5

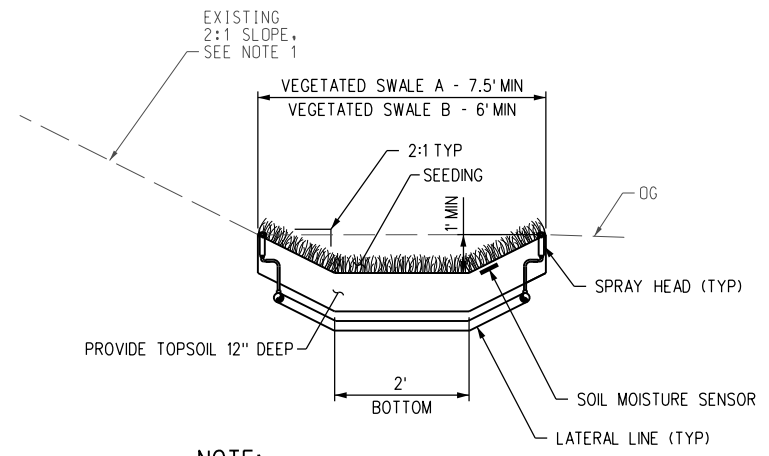
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| DRAWING NO.  | CK-205                      |
| REVISION     | SHEET NO.<br>28 OF 71       |
| SCALE        | HORIZ 1"=10'<br>VERT 1"=10' |



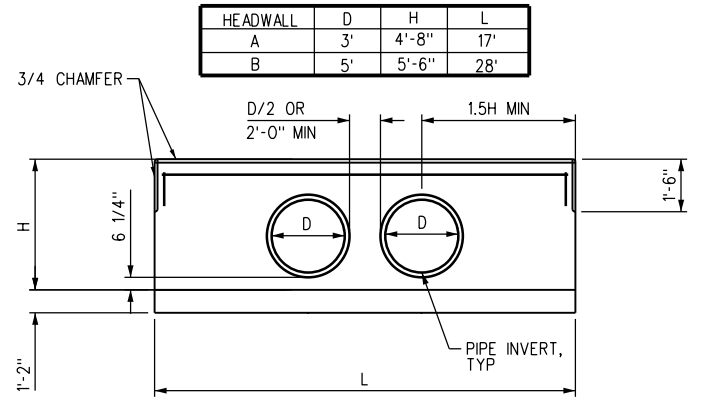
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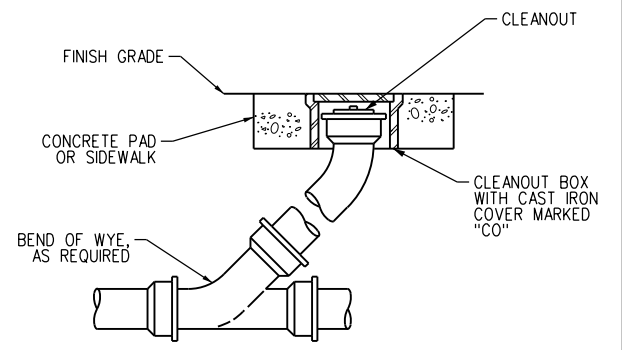
TRENCH DRAIN  
SCALE: NONE  
1  
CG-002, CG-101



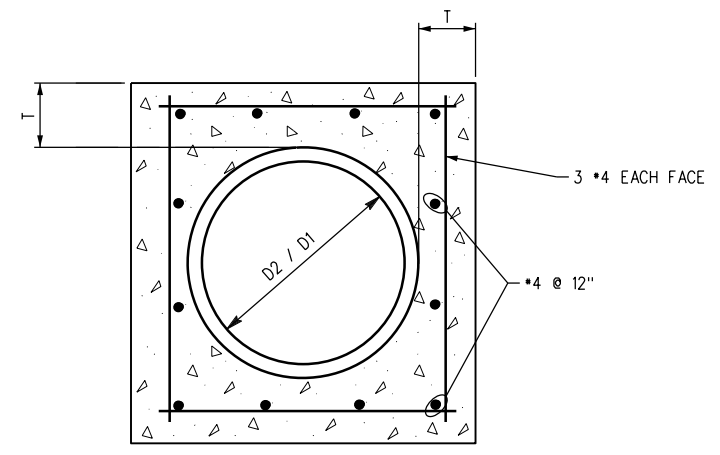
NOTE:  
1. EXISTING GROUND SHOWN ADJACENT TO VEGETATED SWALE B; MIRROR FOR VEGETATED SWALE A.  
VEGETATED SWALE  
SCALE: NONE  
2  
CG-003, CG-101



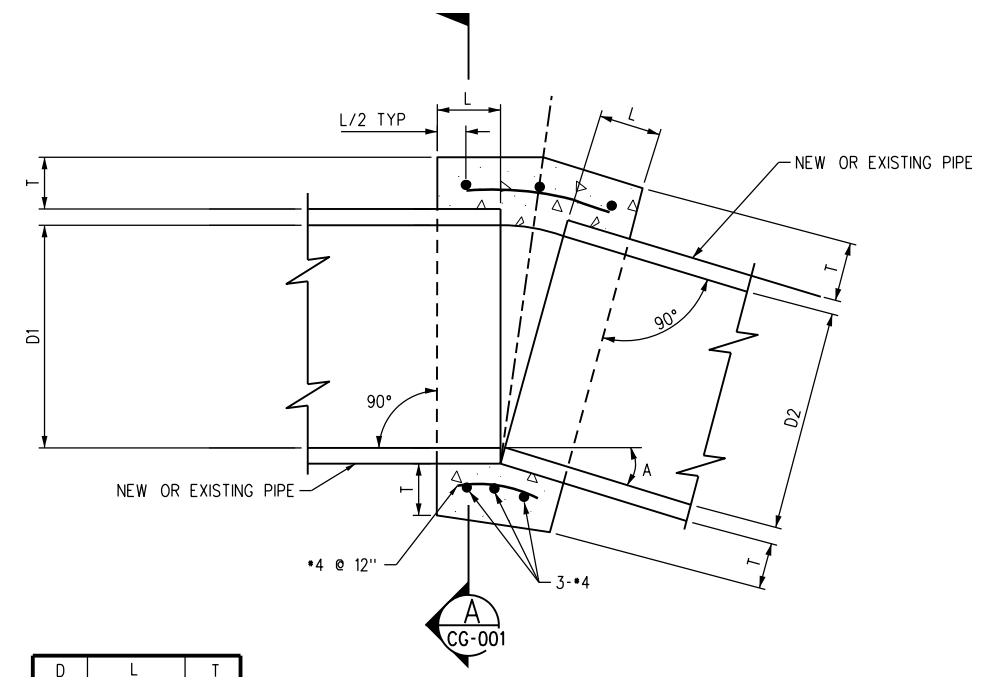
NOTE:  
1. SEE 2016 CALTRANS REVISED STD PLANS RSP DETAIL D89.  
DOUBLE PIPE CULVERT HEADWALL  
SCALE: NONE  
3  
CG-103



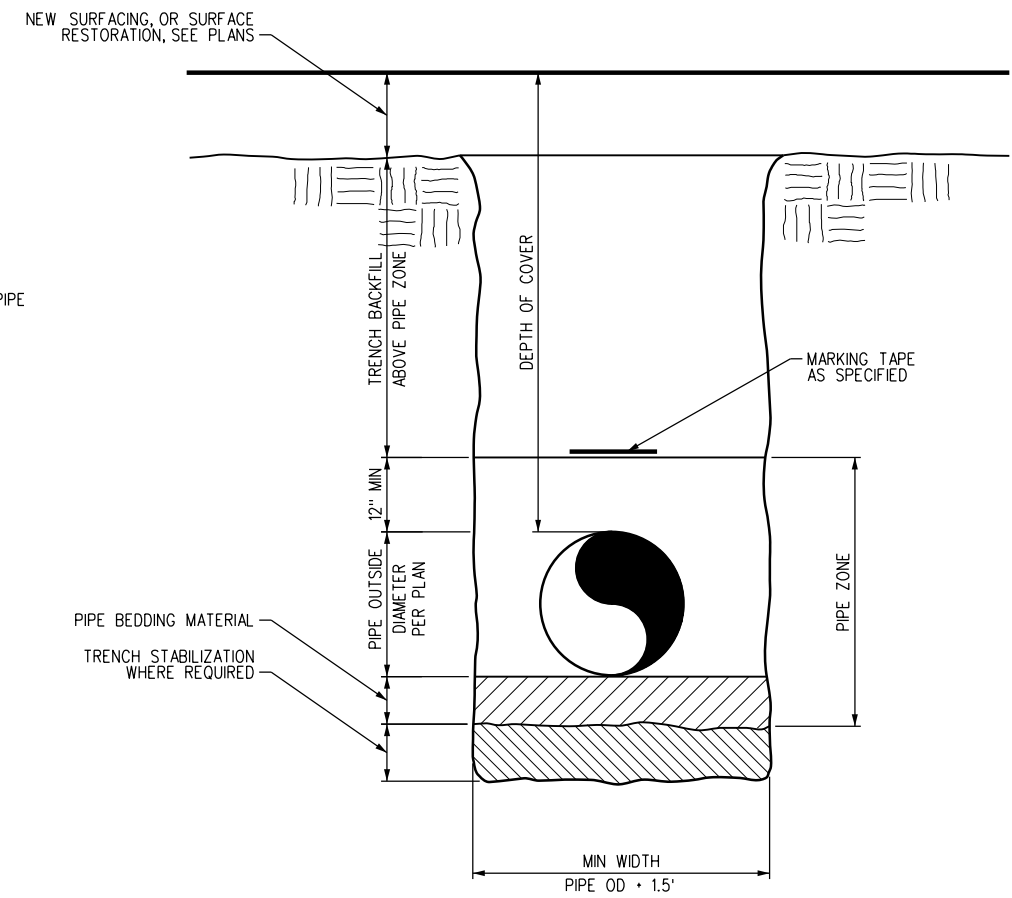
CLEANOUT  
SCALE: NONE  
4  
CG-102



SECTION A-A



CONCRETE COLLAR  
SCALE: NONE  
5  
CG-103



TYPICAL TRENCH  
SCALE: NONE  
6  
CG-101, CG-102

NOTES:

- WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, 'L' AND 'T' SHALL BE THOSE OF THE LARGER PIPE. 'D' = D1 OR D2, WHICHEVER IS GREATER.
- FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
- OMIT REINFORCING ON PIPES 24" AND LESS IN DIAMETER AND ON ALL PIPES WHERE ANGLE A IS LESS THAN 10°
- JOIN PIPES AT INVERTS.
- REINFORCEMENT SHALL BE PLACED 1 1/2" CLEAR FROM OUTSIDE DIAMETER OF PIPE.

| D   | L     | T   |
|-----|-------|-----|
| 60" | 1.75' | 11" |

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DESIGNED BY  
T. KIRKENDALL  
DRAWN BY  
T. KIRKENDALL  
CHECKED BY  
M. COQUIA  
APPROVED BY  
M. COQUIA  
DATE  
01-20-2017

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SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

ANAHEIM CANYON  
METROLINK STATION PROJECT

DRAINAGE DETAILS  
SHEET 1 OF 2

|              |           |
|--------------|-----------|
| CONTRACT NO. | C-4-1977  |
| DRAWING NO.  | CG-001    |
| REVISION     | SHEET NO. |
|              | 29 OF 71  |
| SCALE        | NONE      |

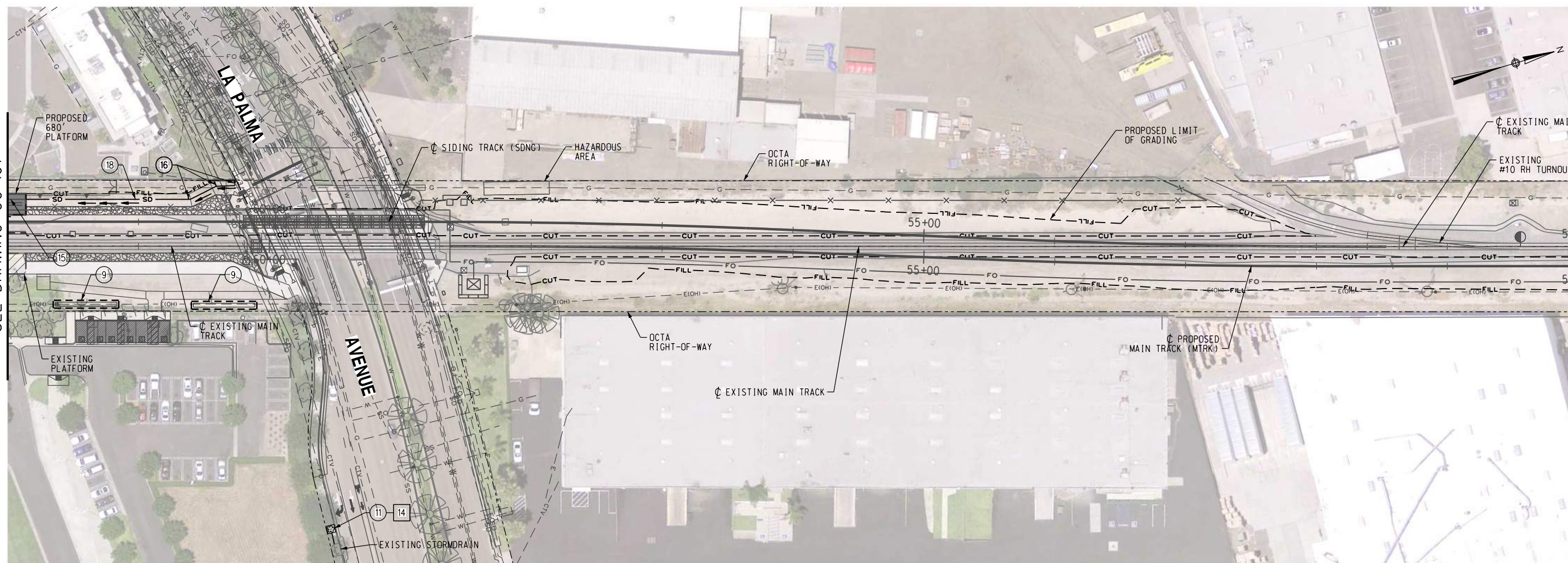













MATCH LINE - MTRK 62+00  
SEE DRAWING CG-101



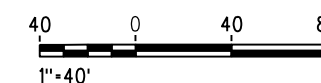
MATCH LINE - MTRK 50+00  
SEE DRAWING CG-103

## CONSTRUCTION SYMBOLS

-  CONSTRUCT      REMODEL EXISTING  
 EXISTING      REMOVE & RECONSTRUCT  
 REMOVE     ( ) WORK BY OTHERS

CONSTRUCTION NOTES:

- 9) CONSTRUCT LOCALIZED ON-LOT FILTRATION. 50' L X 3' W X 0.75' D.
- 11) CONSTRUCT BIOFILTRATION TREE WELL.
- 14) REMOVE CONCRETE PAVEMENT/AND/OR LANDSCAPING, AS APPLICABLE.
- 15) CONSTRUCT 10" PVC SD, SEE RETAINING WALL DRAWINGS. INSTALL CLEANOUTS EVERY 300' PER DETAIL 4 ON DWG CG-001.
- 16) AREA DRAIN.
- 18) INSTALL 10" PVC SD WITH TYPICAL TRENCH PER DETAIL 6 ON DWG CG-001. AND CLEANOUTS EVERY 300' PER DETAIL 4 ON DWG CG-001.



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|             |               |
|-------------|---------------|
| DESIGNED BY | T. KIRKENDALL |
| DRAWN BY    | T. KIRKENDALL |
| CHECKED BY  | M. COQUIA     |
| APPROVED BY | M. COQUIA     |
| DATE        | 01-20-2017    |

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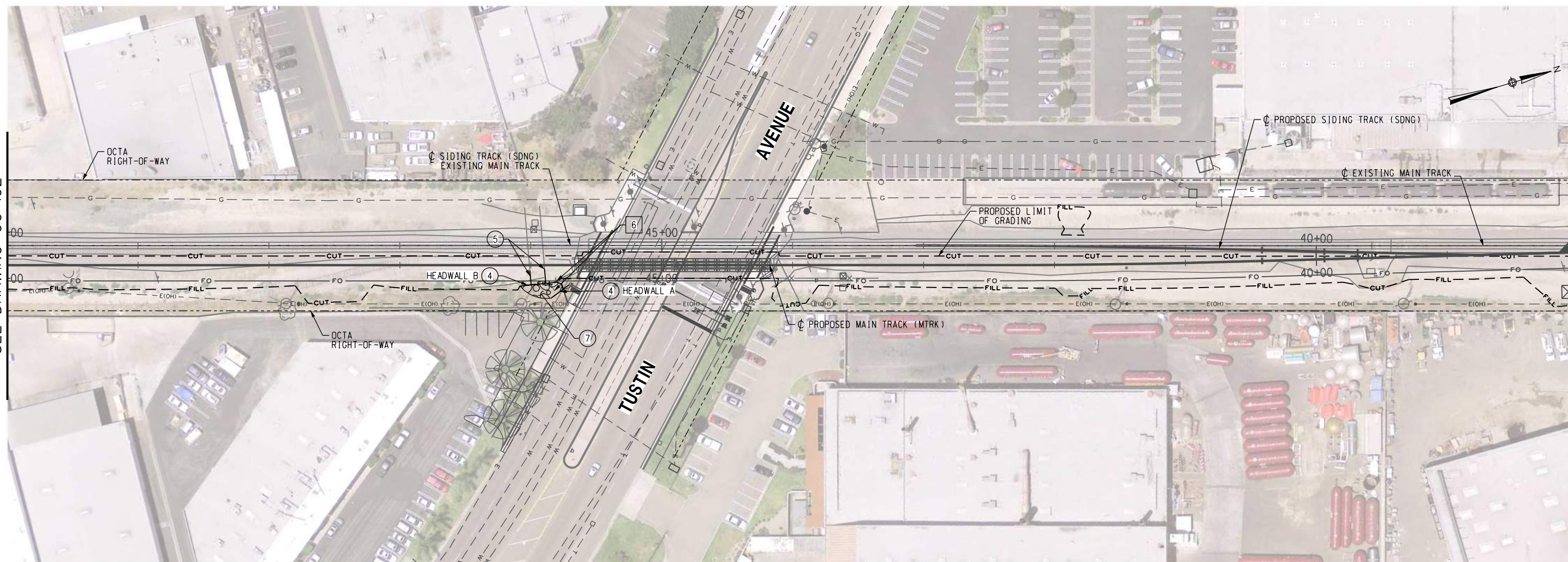
**ANAHEIM CANYON**  
**METROLINK STATION PROJECT**  
DRAINAGE PLAN  
MTRK 62+00 TO MTRK 50+00  
SHEET 2 OF 4

|              |           |          |
|--------------|-----------|----------|
| CONTRACT NO. |           | C-4-1977 |
| DRAWING NO.  |           |          |
| CG-102       |           |          |
| REVISION     | SHEET NO. |          |
|              | 32 OF 71  |          |
| SCALE        |           | 1"=40'   |

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MATCH LINE - MTRK 50+00  
SEE DRAWING CG-102



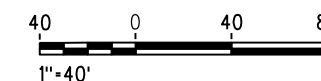
MATCH LINE - MTRK 38+00  
SEE DRAWING CG-104

## CONSTRUCTION SYMBOLS

-  CONSTRUCT      REMODEL EXISTING  
 EXISTING      REMOVE & RECONSTRUCT  
 REMOVE      WORK BY OTHERS

CONSTRUCTION NOTES:

- ④ CONSTRUCT DOUBLE PIPE CULVERT HEADWALL WITH RETAINING WALL PER DETAIL 3 ON DWG CG-001.
- ⑤ INSTALL 60" RCP WITH CONCRETE COLLAR PER DETAIL 5 ON DWG CG-001 (2 LOCATIONS).
- ⑥ CUT BACK EXISTING 2-36" CMP.
- ⑦ INSTALL RIPRAP.



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|-------------|---------------|
| DESIGNED BY | T. KIRKENDALL |
| DRAWN BY    | T. KIRKENDALL |
| CHECKED BY  | M. COQUIA     |
| APPROVED BY | M. COQUIA     |
| DATE        | 01-20-2017    |

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SUBMITTAL**  
NOT FOR CONSTRUCTION



**ANAHEIM CANYON**  
**METROLINK STATION PROJECT**  
DRAINAGE PLAN  
MTRK 50+00 TO MTRK 38+00  
SHEET 3 OF 4

|              |           |         |  |
|--------------|-----------|---------|--|
| CONTRACT NO. |           | C-4-197 |  |
| DRAWING NO.  |           | CG-103  |  |
| REVISION     | SHEET NO. |         |  |
|              | 33 OF 7   |         |  |
| SCALE        |           | 1"=40'  |  |






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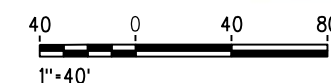


MATCH LINE - MTRK 38+00  
SEE DRAWING CG-103



## CONSTRUCTION SYMBOLS

-  CONSTRUCT      REMODEL EXISTING  
 EXISTING      REMOVE & RECONSTRUCT  
 REMOVE     ( ) WORK BY OTHERS



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|-------------|---------------|
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| DRAWN BY    | T. KIRKENDALL |
| CHECKED BY  | M. COQUIA     |
| APPROVED BY | M. COQUIA     |
| DATE        | 01-20-2017    |

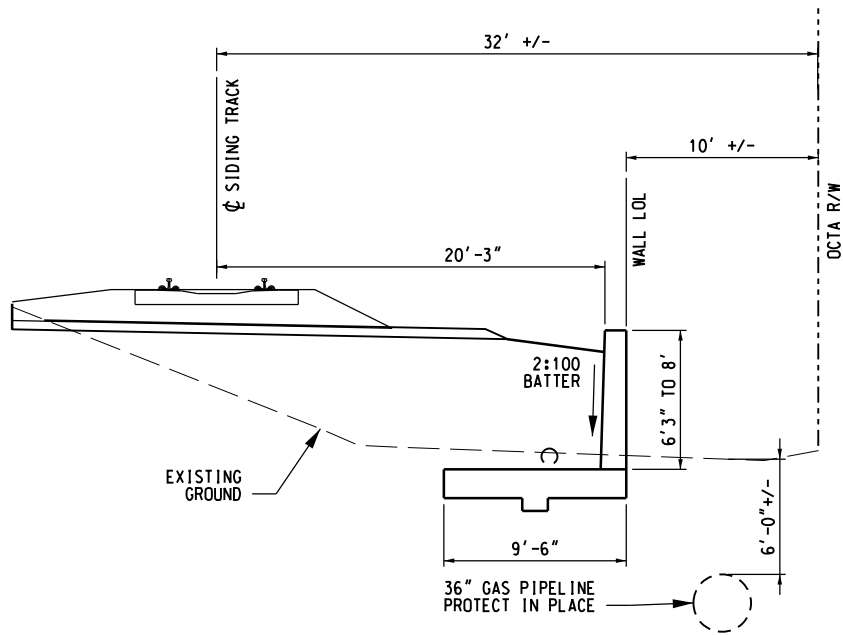
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SUBMITTAL**  
NOT FOR CONSTRUCTION



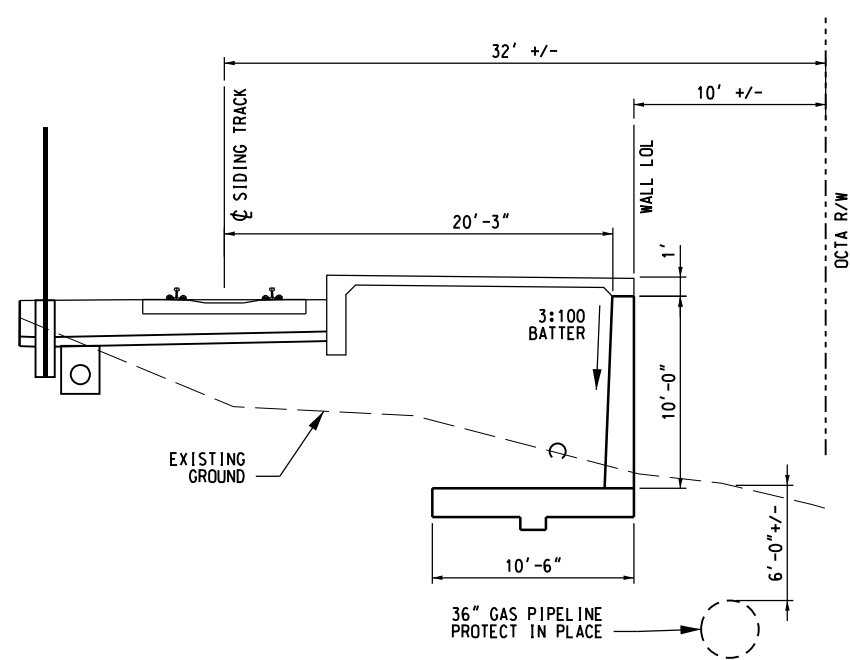
**ANAHEIM CANYON**  
**METROLINK STATION PROJECT**  
DRAINAGE PLAN  
MTRK 38+00 TO MTRK 35+11  
SHEET 4 OF 4

|              |           |         |
|--------------|-----------|---------|
| CONTRACT NO. |           | C-4-197 |
| DRAWING NO.  |           | CG-104  |
| REVISION     | SHEET NO. |         |
|              | 34 OF 7   |         |
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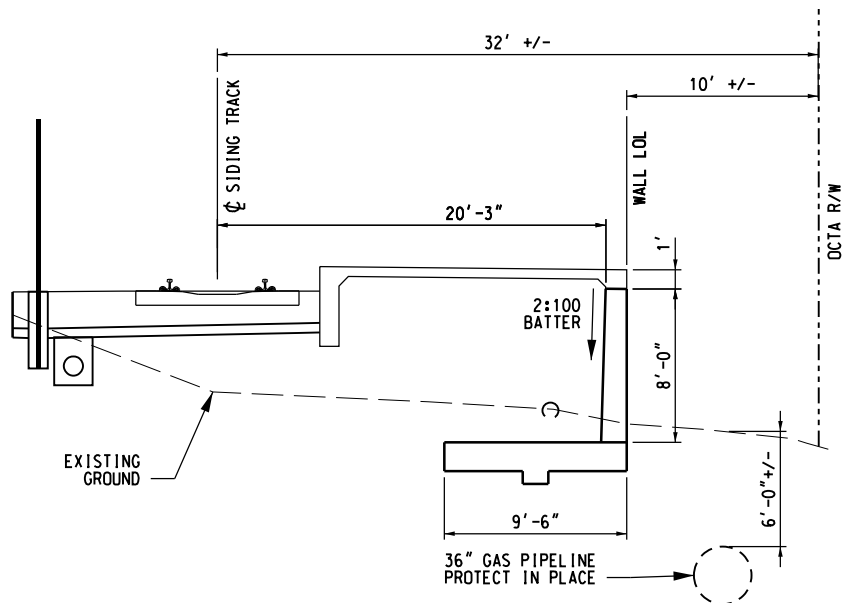
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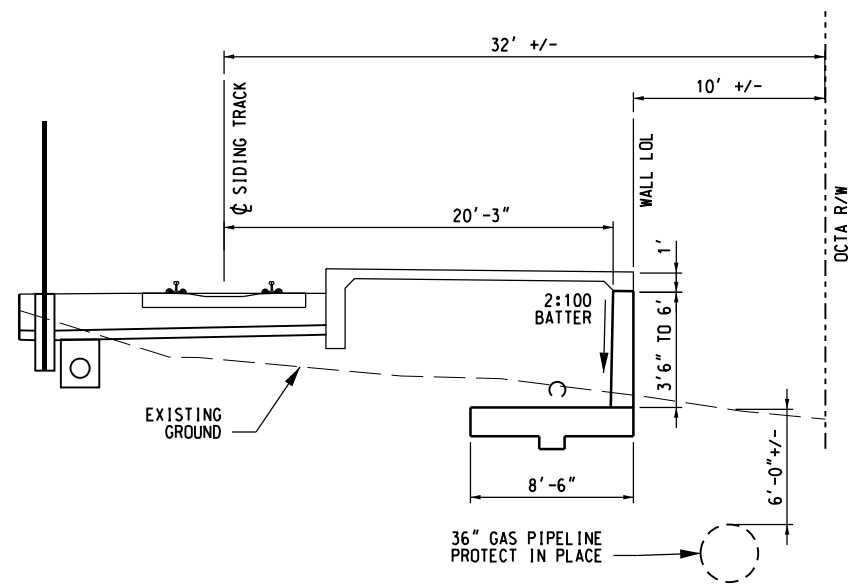
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SCALE: NONE  
CI-101



TYPICAL CROSS-SECTION  
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SCALE: NONE  
CI-101



TYPICAL CROSS-SECTION  
SDNG 65+25.00 TO SDNG 62+13.00 (B)  
SCALE: NONE  
CI-101



TYPICAL CROSS-SECTION  
SDNG 62+13.00 TO SDNG 61+40.00 (A)  
SCALE: NONE  
CI-101

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DESIGNED BY M. MAMAWAL  
DRAWN BY A. LEWIS  
CHECKED BY M. SATISH  
APPROVED BY A. SOKOL  
DATE 01-20-2017

30%  
SUBMITTAL  
NOT FOR CONSTRUCTION

**METROLINK®**

STV

ORANGE COUNTY  
TRANSPORTATION  
AUTHORITY

SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**

RETAINING WALL  
TYPICAL SECTIONS

CONTRACT NO. C-4-1977  
DRAWING NO. CI-011  
REVISION SHEET NO. 35 OF 71  
SCALE NONE

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| REV. | DATE | BY | SUB. | APP. |
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|      |      |    |      |      |
|      |      |    |      |      |

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|             |            |
|-------------|------------|
| DESIGNED BY | M. MAMAWAL |
| DRAWN BY    | M. MAMAWAL |
| CHECKED BY  | M. SATISH  |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

30%  
SUBMITTAL  
NOT FOR CONSTRUCTION

**METROLINK®**

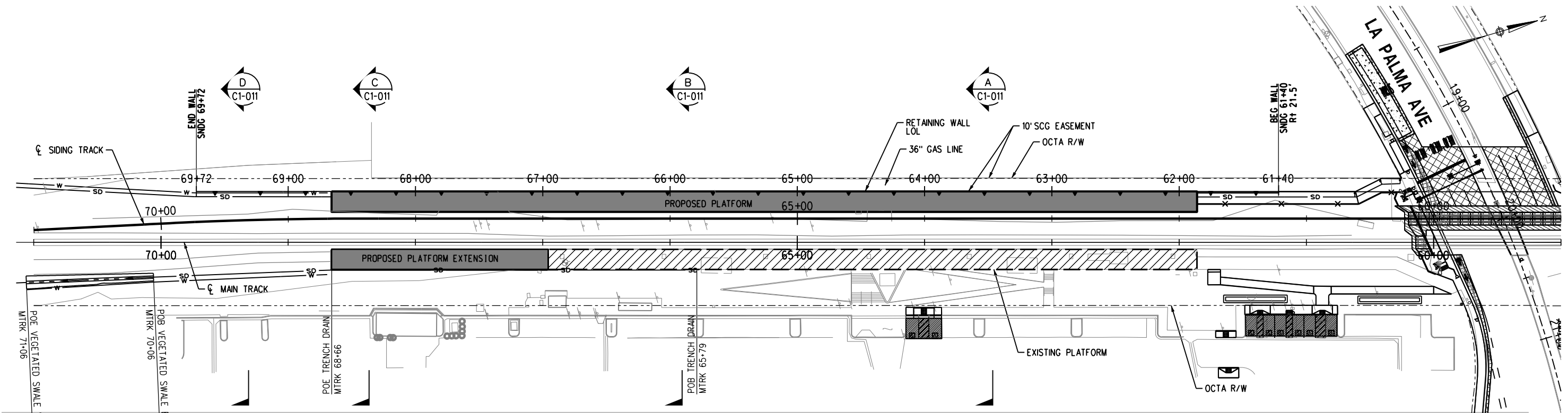


SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

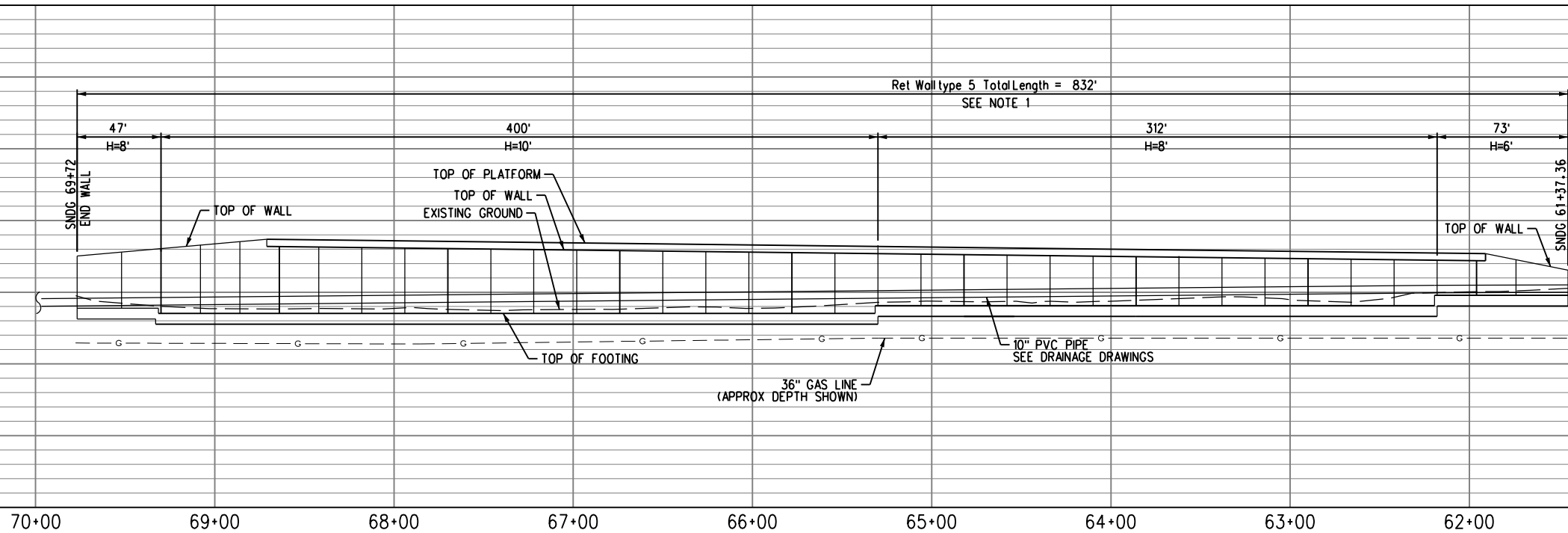
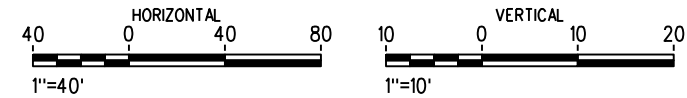
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
RETAINING WALL PLAN & PROFILE  
SDNG 68+66 TO SDNG 61+86

|              |                             |
|--------------|-----------------------------|
| CONTRACT NO. | C-4-1977                    |
| DRAWING NO.  | CI-101                      |
| REVISION     | SHEET NO.                   |
|              | 36 OF 71                    |
| SCALE        | HORIZ 1"=40'<br>VERT 1"=10' |



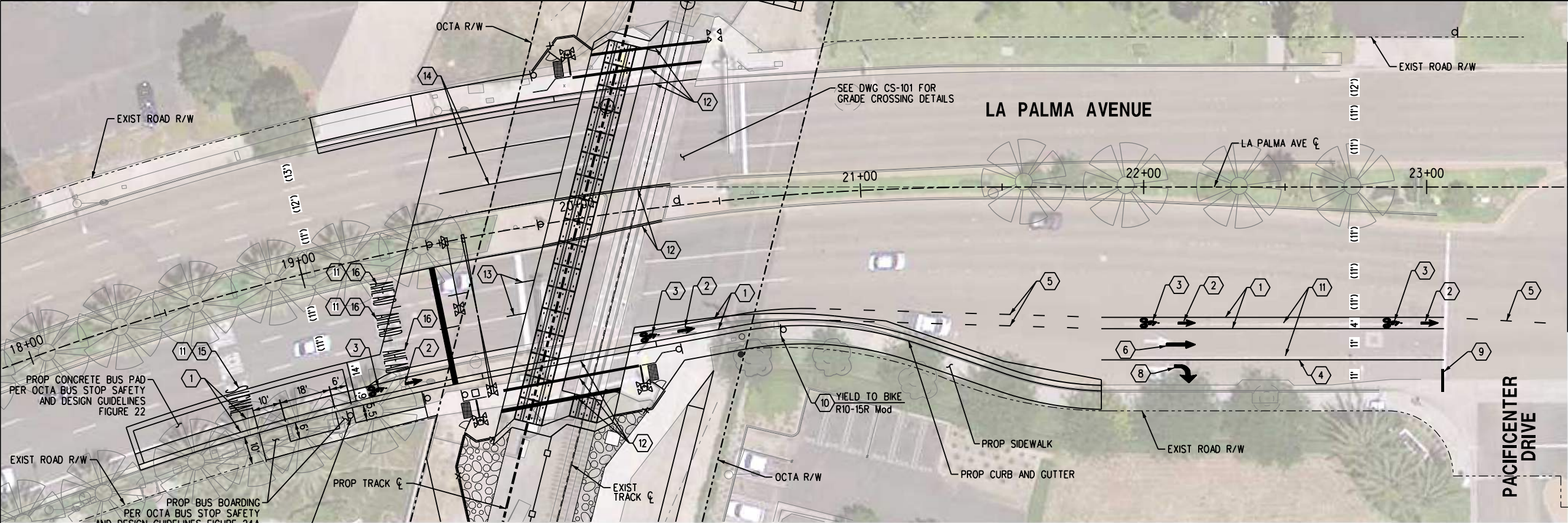
PLAN



NOTES:

1. PROVIDE RETAINING WALL TYPE 5 (CASE A) PER CALTRANS STD PLAN RSP B3-4A.





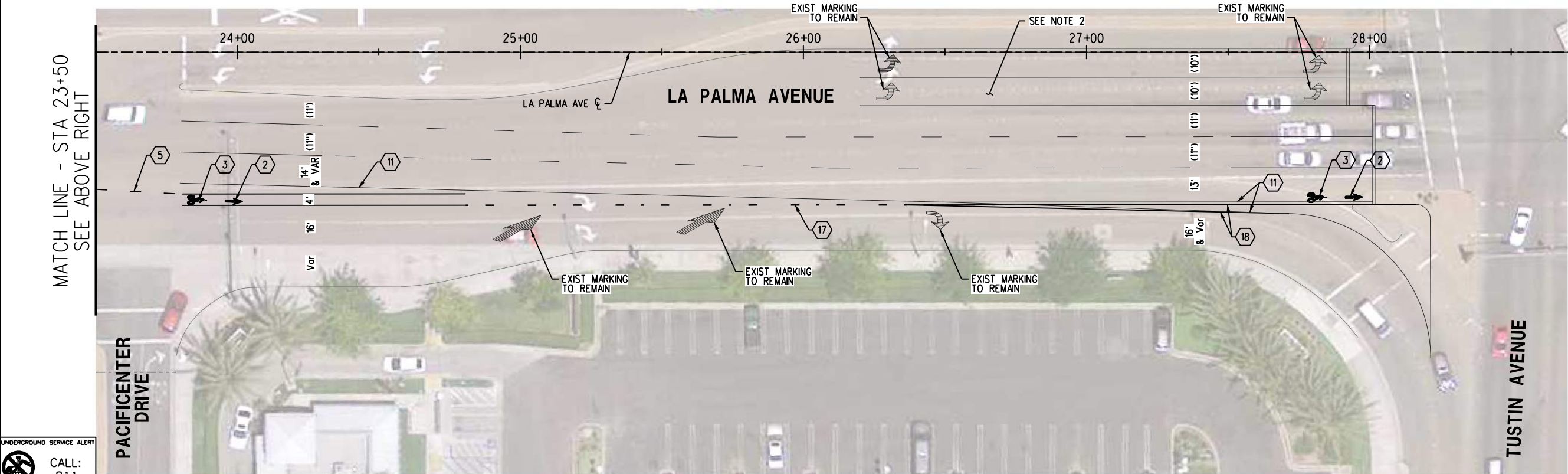
MATCH LINE - STA 23+50  
SEE BELOW LEFT

**SIGNING AND STRIPING NOTES:**

- 1. INSTALL BIKE LANE LINE DETAIL 39 PER CALTRANS STD PLAN A20D
- 2. INSTALL BIKE LANE ARROW PER CALTRANS STD PLAN A24A (SPACING PER MUTCD (CA))
- 3. INSTALL BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD PLAN A24C (SPACING PER MUTCD (CA))
- 4. INSTALL 8" WHITE LANE LINE DETAIL 38A PER CALTRANS STD PLAN A20D
- 5. INSTALL 6" WHITE LANE LINE DETAIL 39A PER CALTRANS STD PLAN A20D
- 6. INSTALL TYPE I (10'-0") ARROW PER CALTRANS STD PLAN A24A
- 7. INSTALL TYPE IV (R) ARROW PER CALTRANS STD PLAN A24A
- 8. INSTALL TYPE VII(R) ARROW PER CALTRANS STD PLAN A24A
- 9. INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E
- 10. INSTALL SIGN AND POST
- 11. REMOVE STRIPING/MARKING (WET SAND BLAST)
- 12. SEE GRADE CROSSING EXHIBIT SHEET CS-102 FOR STRIPING DETAIL
- 13. INSTALL 4" WHITE LANELINE AT 17' GAP PER DETAIL A24A
- 14. INSTALL 4" WHITE SOLID STRIPE
- 15. INSTALL "SIGNAL" PER CALTRANS STD PLAN A24D
- 16. INSTALL "AHEAD" PER CALTRANS STD PLAN A24D
- 17. INSTALL DETAIL 37B PER CALTRANS STD PLAN A24C
- 18. INSTALL 8" WHITE LANE LINE DETAIL 38B PER CALTRANS STD PLAN A20D

**NOTES:**

- 1. SEE SHEET CS-102 AND CS-112 FOR ALL SIGNAGE.
- 2. AERIAL OUTDATED ON LA PALMA AVE FROM STA 24+00 TO 29+00. EXISTING CURB, STRIPING, AND MARKING SHOWN FOR CLARITY.



UNDERGROUND SERVICE ALERT  
CALL: 811  
TWO WORKING DAYS BEFORE YOU DIG

| REVISIONS |      |               |       |         | REFERENCES   |  |  |  |  |
|-----------|------|---------------|-------|---------|--|--|--|--|--|
| NO.       | DATE | DESCRIPTION   | ENGR. | APPROV. | FOR NOTES TO CONTRACTOR SEE PLAN XXXXX                                 |  |  |  |  |
| 1         |      | 30% SUBMITTAL |       |         | FOR STANDARD DETAILS SEE: APWA 111-3, COA: 112-1,114-A,115-B,120,121-A |  |  |  |  |
|           |      |               |       |         | 130-1,150-2,151-1,410,451-E,459,452-B,453-A,454-C,457,641,W-150        |  |  |  |  |
|           |      |               |       |         | STREET PLAN NO'S: XXX-XXX STRIPING PLAN NO'S: XXX-XXX                  |  |  |  |  |
|           |      |               |       |         | DIST. MAP NO. XXX,XXX BENCH MARK NO. XX-XX ELEVATION: XXX.XX'          |  |  |  |  |
|           |      |               |       |         | BASIS OF BEARING: XXX  |  |  |  |  |
|           |      |               |       |         | (NAVD 1988)  |  |  |  |  |

|                    |                      |                       |
|--------------------|----------------------|-----------------------|
| SCALE: 1"=20'      | DESIGNED BY: D. TRAN | REVIEWED BY: A. BOSCH |
| PLAN PREPARED BY:  |                      |                       |
| PRINCIPAL ENGINEER |                      |                       |
| #45699             | 01-20-2017           |                       |
| R.C.E. No.         | DATE                 |                       |



**CITY OF ANAHEIM**  
DEPARTMENT OF PUBLIC WORKS  
200 SOUTH ANAHEIM BLVD. #276  
ANAHEIM, CA 92805  
(714) 765-5176  
www.anaheim.net

|  |  |   |
|--|--|---|
| MISCELLANEOUS CIVIL IMPROVEMENTS<br>LA PALMA AVENUE - CLASS II BIKE LANE<br>ANAHEIM CANYON METROLINK STATION PROJECT |  | ACCOUNT NUMBER<br>XXX-412-XXXX-7892<br>502-521-XXX-7865-XXXX-01<br>525-521-XXX-7865-XXXX-01 |
| CITY OF ANAHEIM<br>DEPARTMENT OF PUBLIC WORKS  |  | SHEET 37 OF 71<br>PLAN NUMBER CP-101  |



CONSTRUCTION NOTES:

- 1 ACCESS RAMP CASE A TYPE 1 PER SPPWC STD DETAIL 111-3

2 ACCESS RAMP CASE B TYPE 1 WITH RETAINING CURB DETAIL D PER SPPWC STD DETAIL 111-3

3 4" SIDEWALK PER COA STD 110-B

4 GRIND AND OVERLAY, GRADE TO 2% MAX IN ALL DIRECTIONS

5 SAWCUT & JOIN EXISTING

6 JOIN EXISTING

7 3'-6" GUARDRAIL. SEE ARCHITECTURAL PLANS.
- 8 4" CURB PER COA STD 120, TYPE C

9 4' INTERTRACK FENCE PER SCRRRA ES5102

10 6' INTERTRACK FENCE PER SCRRRA ES5102

11 6" ROCK

12 4" WIDE, BLUE PAINT, HANDICAP LOADING ZONE WITH "NO PARKING" MARKING

13 HANDICAP PAVEMENT MARKING PER CALTRANS STD DETAIL A24C

14 4" CURB AND GUTTER PER COA STD 120, TYPE A

15 4" WIDE BLUE PAINT

16 ACCESS RAMP CASE D TYPE 2 PER SPPWC STD DETAIL

17 6" CURB PER COA STD 120 TYPE C

18 4' CHAIN LINK FENCE PER SCRRRA ES5106 ON 6" PCC CURB

19 CHAIN LINK DOUBLE SWING GATE

20 6" PCC SIDEWALK WITH #4 WELDED WIRE MESH PER APWA 113.1

21 BALLAST
- CONSTRUCT

REMODEL EXISTING

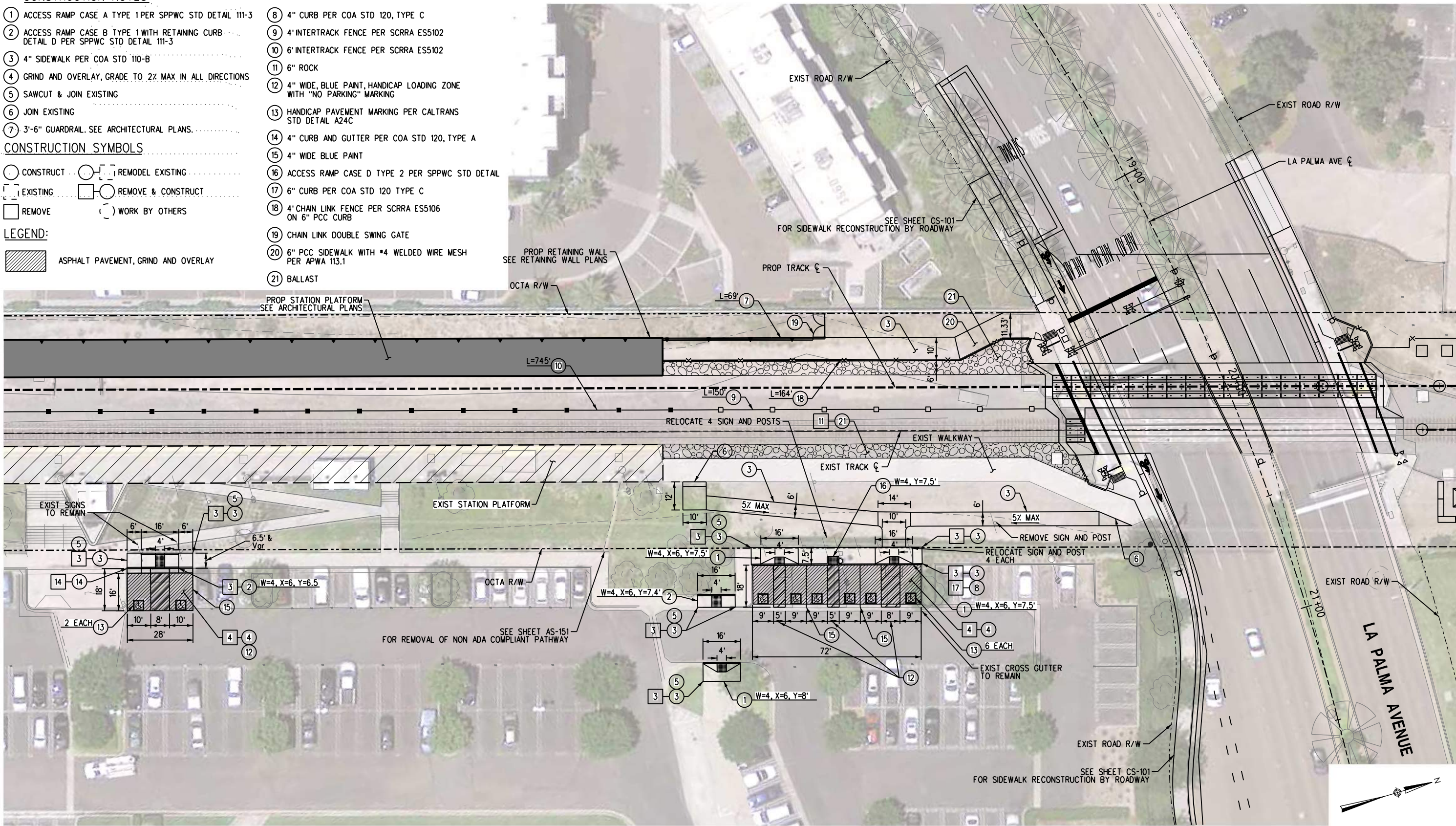
EXISTING

REMOVE & CONSTRUCT

REMOVE

WORK BY OTHERS
- LEGEND:

ASPHALT PAVEMENT, GRIND AND OVERLAY



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DESIGNED BY  
D. TRAN  
DRAWN BY  
D. BARRAZA  
CHECKED BY  
J. TAMAYO  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

30%  
SUBMITTAL  
NOT FOR CONSTRUCTION

 **METROLINK®**  
   
SUBMITTED: \_\_\_\_\_ PROJECT MANAGER  
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
MISCELLANEOUS CIVIL IMPROVEMENTS  
STATION  
WALKWAYS AND CURB RAMPS

CONTRACT NO. C-4-1977  
DRAWING NO. CP-102  
REVISION SHEET NO. 38 OF 71  
SCALE 1"=20'



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DESIGNED BY  
A. LEWIS  
DRAWN BY  
A. LEWIS  
CHECKED BY  
A. BOSCH  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

30%  
SUBMITTAL  
NOT FOR CONSTRUCTION

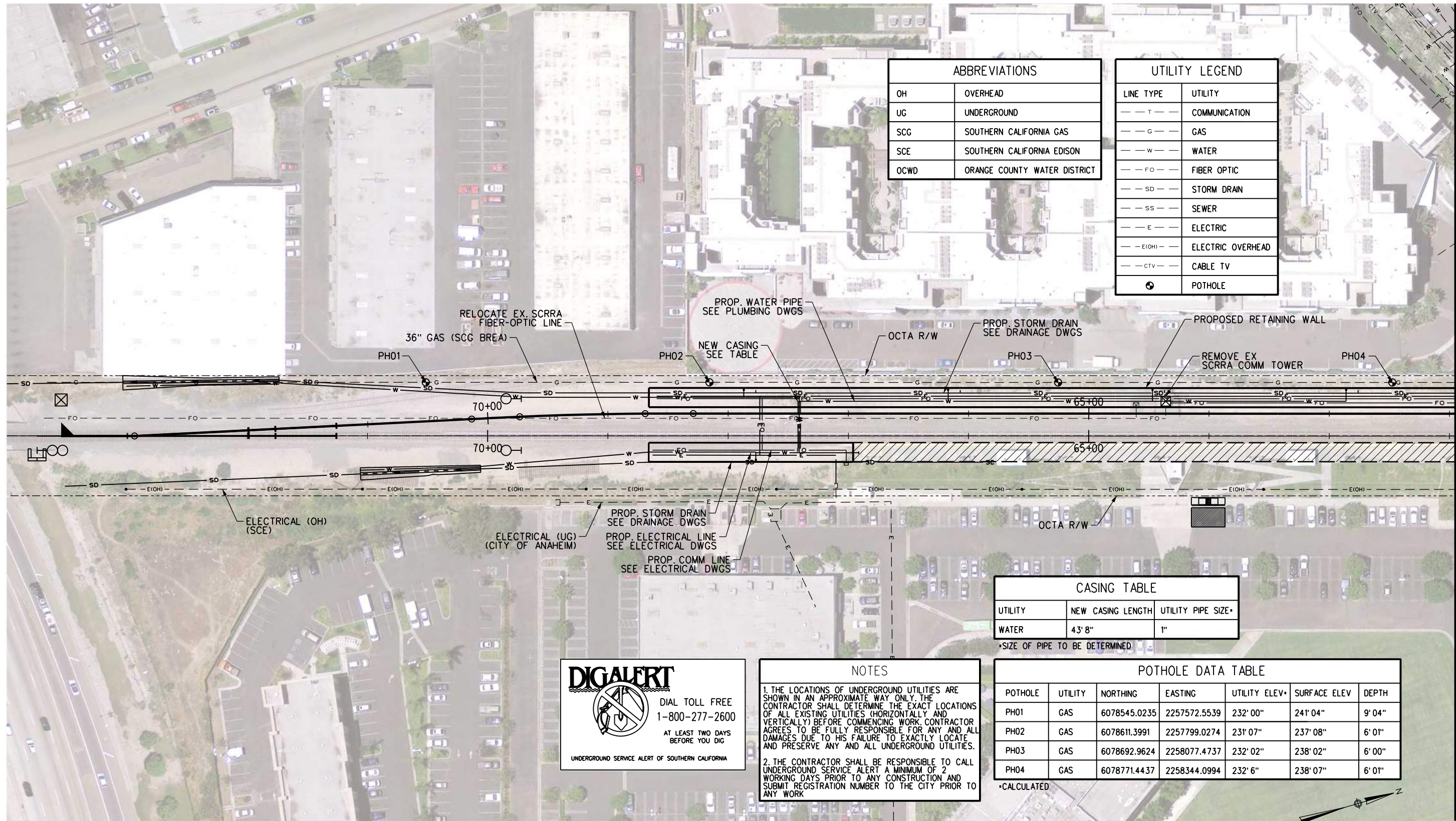


SUBMITTED: \_\_\_\_\_ PROJECT MANAGER

APPROVED: \_\_\_\_\_

ANAHEIM CANYON  
METROLINK STATION PROJECT  
COMPOSITE UTILITY PLAN  
MTRK 73+55 TO MTRK 62+00  
SHEET 1 OF 4

CONTRACT NO. C-4-1977  
DRAWING NO. CU-101  
REVISION SHEET NO. 39 OF 71  
SCALE 1"=40'

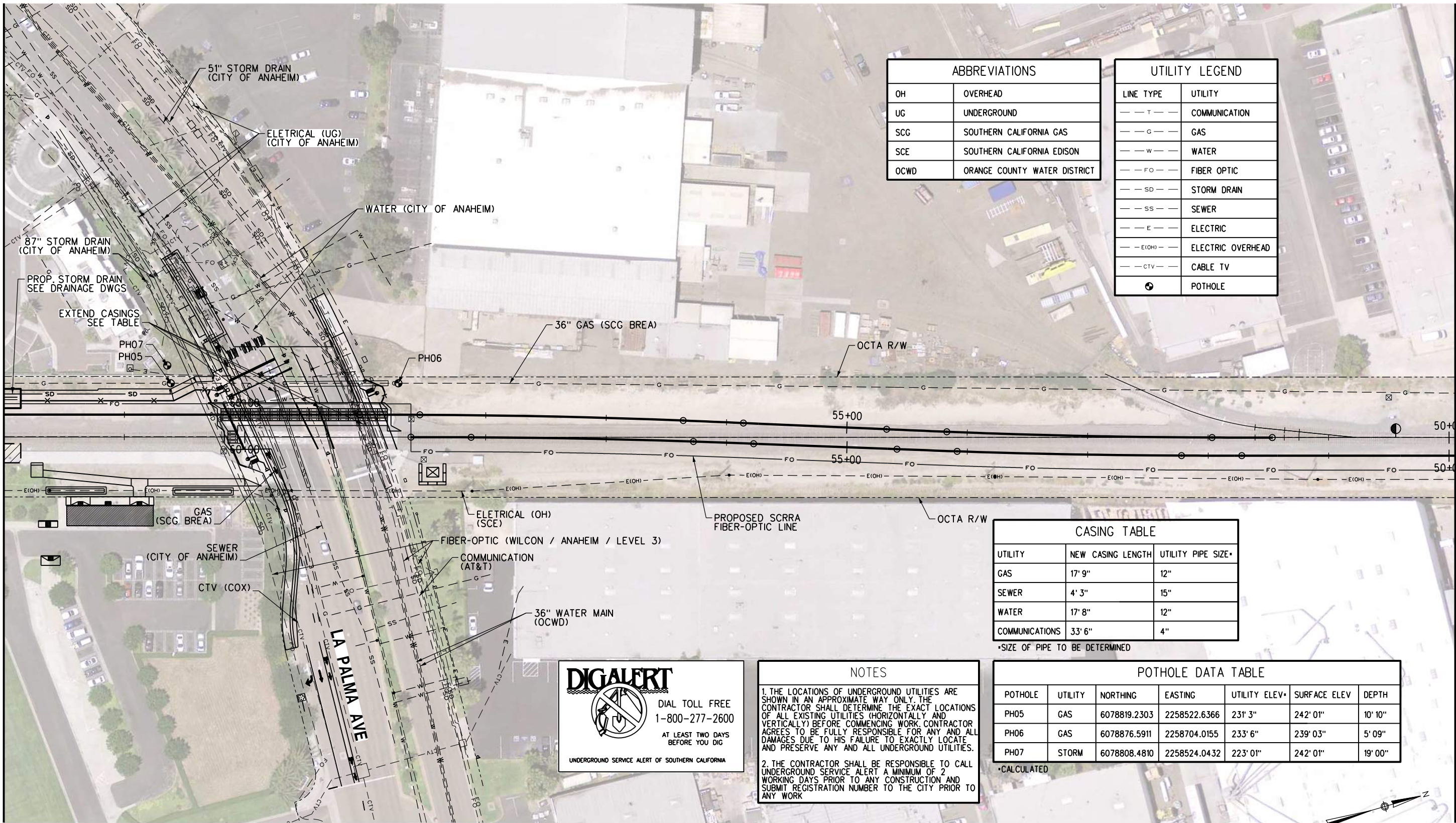


MATCH LINE - MTRK 62+00  
SEE DRAWING CU-102



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MATCH LINE - MTRK 62+00  
SEE DRAWING CU-101



| ABBREVIATIONS |                              |
|---------------|------------------------------|
| OH            | OVERHEAD                     |
| UG            | UNDERGROUND                  |
| SCG           | SOUTHERN CALIFORNIA GAS      |
| SCE           | SOUTHERN CALIFORNIA EDISON   |
| OCWD          | ORANGE COUNTY WATER DISTRICT |

| UTILITY LEGEND |                   |
|----------------|-------------------|
| LINE TYPE      | UTILITY           |
| ---            | COMMUNICATION     |
| ---            | GAS               |
| ---            | WATER             |
| ---            | FIBER OPTIC       |
| ---            | STORM DRAIN       |
| ---            | SEWER             |
| ---            | ELECTRIC          |
| ---            | ELECTRIC OVERHEAD |
| ---            | CABLE TV          |
| ●              | POTHOLE           |

| CASING TABLE   |                   |                    |
|----------------|-------------------|--------------------|
| UTILITY        | NEW CASING LENGTH | UTILITY PIPE SIZE* |
| GAS            | 17' 9"            | 12"                |
| SEWER          | 4' 3"             | 15"                |
| WATER          | 17' 8"            | 12"                |
| COMMUNICATIONS | 33' 6"            | 4"                 |

\*SIZE OF PIPE TO BE DETERMINED

| POTHOLE DATA TABLE |         |              |              |               |              |         |
|--------------------|---------|--------------|--------------|---------------|--------------|---------|
| POTHOLE            | UTILITY | NORTHING     | EASTING      | UTILITY ELEV* | SURFACE ELEV | DEPTH   |
| PH05               | GAS     | 6078819.2303 | 2258522.6366 | 231' 3"       | 242' 01"     | 10' 10" |
| PH06               | GAS     | 6078876.5911 | 2258704.0155 | 233' 6"       | 239' 03"     | 5' 09"  |
| PH07               | STORM   | 6078808.4810 | 2258524.0432 | 223' 01"      | 242' 01"     | 19' 00" |

\*CALCULATED

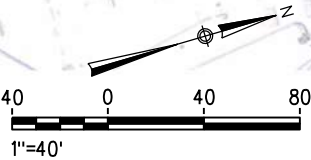


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1-800-277-2600  
AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES (HORIZONTALLY AND VERTICALLY) BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL UNDERGROUND SERVICE ALERT A MINIMUM OF 2 WORKING DAYS PRIOR TO ANY CONSTRUCTION AND SUBMIT REGISTRATION NUMBER TO THE CITY PRIOR TO ANY WORK



MATCH LINE - MTRK 50+00  
SEE DRAWING CU-103

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DESIGNED BY  
A. LEWIS  
DRAWN BY  
A. LEWIS  
CHECKED BY  
A. BOSCH  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

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SUBMITTED: PROJECT MANAGER  
APPROVED:

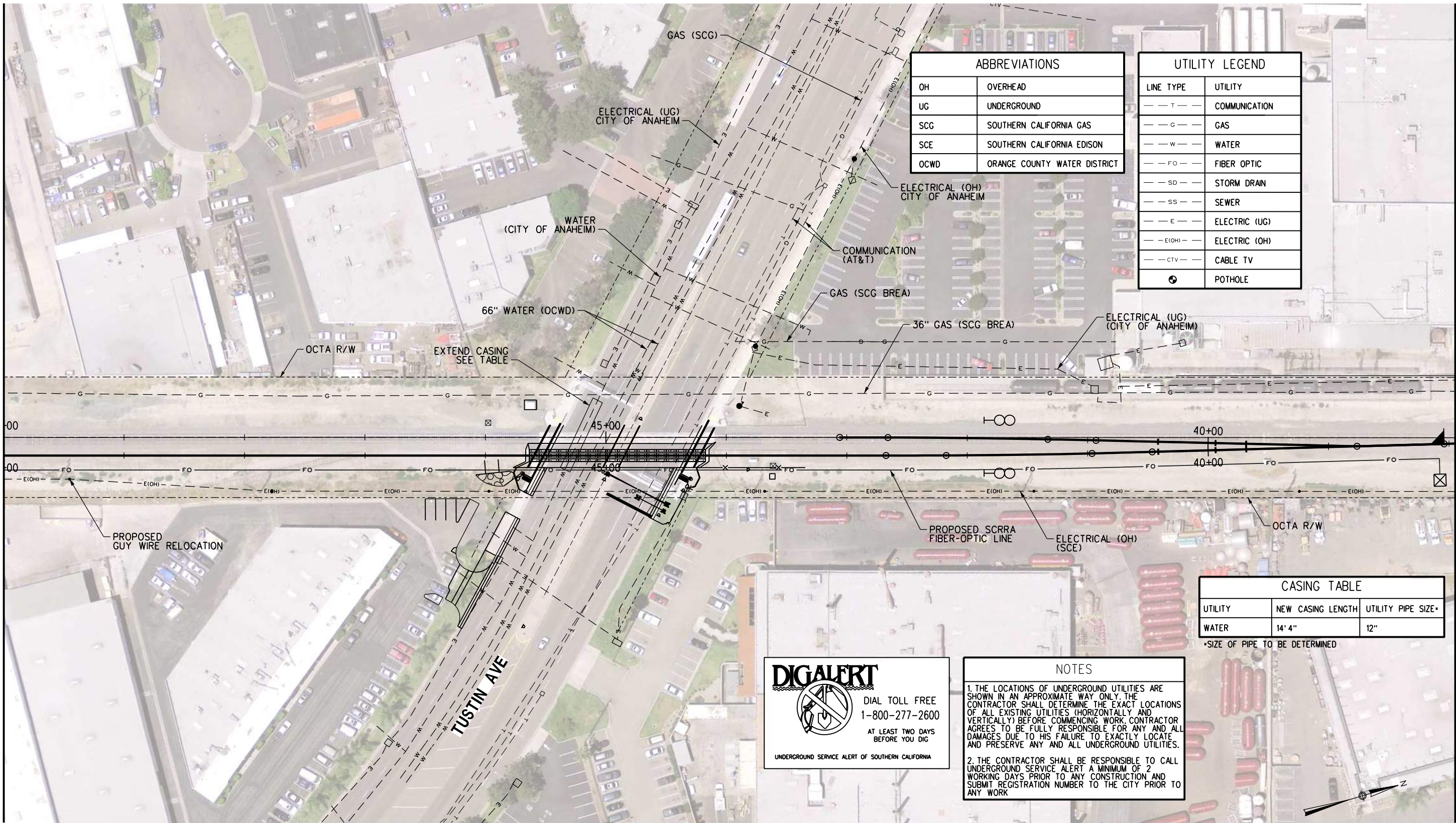
ANAHEIM CANYON  
METROLINK STATION PROJECT  
COMPOSITE UTILITY PLAN  
MTRK 62+00 TO MTRK 50+00  
SHEET 2 OF 4

CONTRACT NO. C-4-1977  
DRAWING NO. CU-102  
REVISION SHEET NO. 40 OF 71  
SCALE 1"=40'



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MATCH LINE - MTRK 50+00  
SEE DRAWING CU-102



| ABBREVIATIONS |                              |
|---------------|------------------------------|
| OH            | OVERHEAD                     |
| UG            | UNDERGROUND                  |
| SCG           | SOUTHERN CALIFORNIA GAS      |
| SCE           | SOUTHERN CALIFORNIA EDISON   |
| OCWD          | ORANGE COUNTY WATER DISTRICT |

| UTILITY LEGEND |               |
|----------------|---------------|
| LINE TYPE      | UTILITY       |
| — T —          | COMMUNICATION |
| — G —          | GAS           |
| — W —          | WATER         |
| — FO —         | FIBER OPTIC   |
| — SD —         | STORM DRAIN   |
| — SS —         | SEWER         |
| — E —          | ELECTRIC (UG) |
| — E(OH) —      | ELECTRIC (OH) |
| — CTV —        | CABLE TV      |
| ⊙              | POTHOLE       |

| CASING TABLE |                   |                    |
|--------------|-------------------|--------------------|
| UTILITY      | NEW CASING LENGTH | UTILITY PIPE SIZE* |
| WATER        | 14' 4"            | 12"                |

\*SIZE OF PIPE TO BE DETERMINED



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AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES (HORIZONTALLY AND VERTICALLY) BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL UNDERGROUND SERVICE ALERT A MINIMUM OF 2 WORKING DAYS PRIOR TO ANY CONSTRUCTION AND SUBMIT REGISTRATION NUMBER TO THE CITY PRIOR TO ANY WORK



MATCH LINE - MTRK 38+00  
SEE DRAWING CU-104

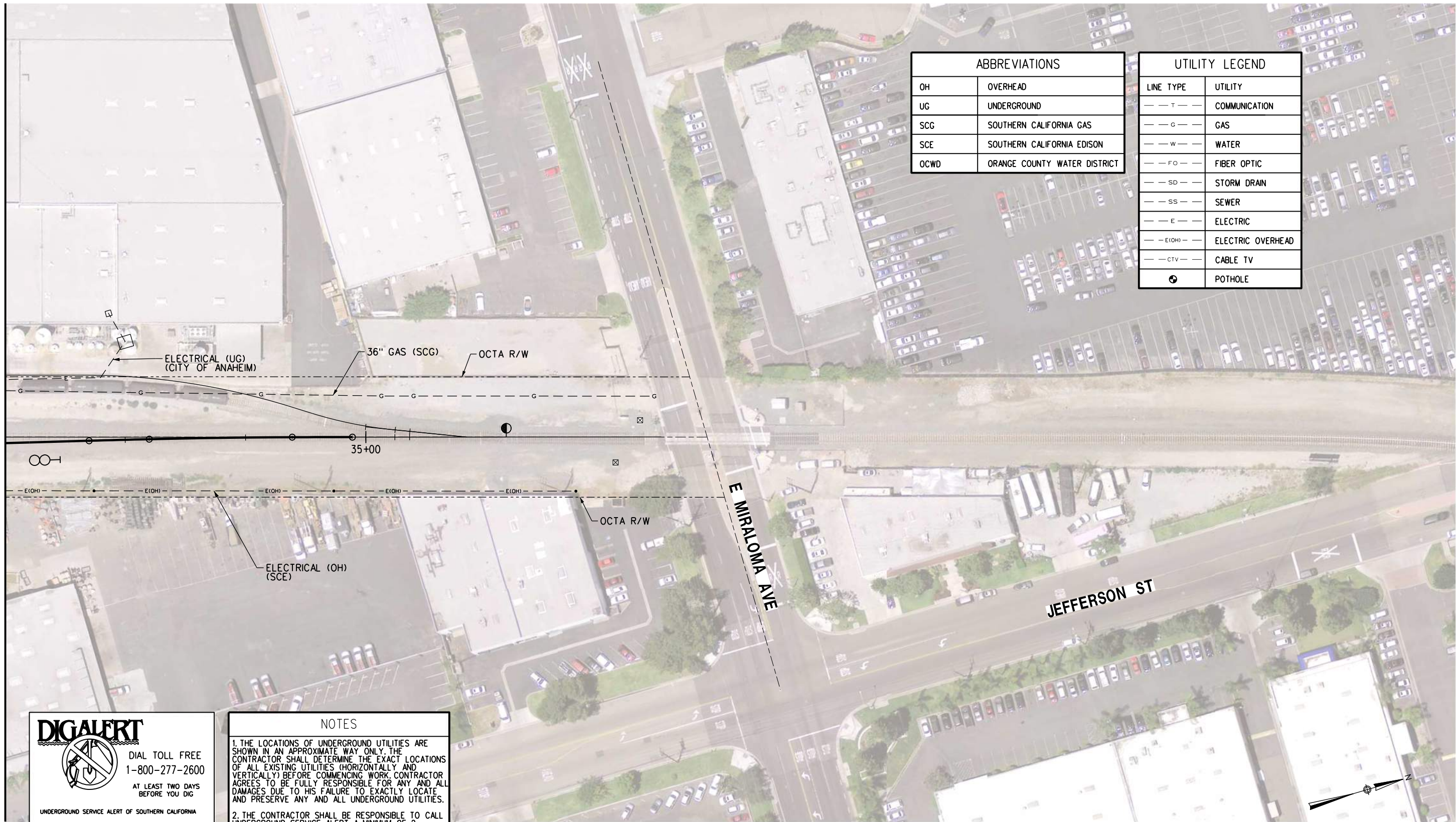
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|      |      |    |      |      |  |   | DRAWING NO. CU-103      |  |  |  |  |   |  |  |                       |  |  |
|      |      |    |      |      |  | CHECKED BY<br>A. BOSCH  | REVISION                |  | SHEET NO.  |  |  |   |  |  |                       |  |  |
|      |      |    |      |      |  | APPROVED BY<br>A. SOKOL   | 41 OF 71                |  |  |  |  |   |  |  |                       |  |  |
|      |      |    |      |      |  | DATE<br>01-20-2017  | SCALE<br>1"=40'         |  |  |  |  |   |  |  |                       |  |  |
| REV. | DATE | BY | SUB. | APP. |  |   |                         |  |  |  |  |   |  |  |                       |  |  |



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MATCH LINE - MTRK 38+00  
SEE DRAWING CU-103



| ABBREVIATIONS |                              |
|---------------|------------------------------|
| OH            | OVERHEAD                     |
| UG            | UNDERGROUND                  |
| SCG           | SOUTHERN CALIFORNIA GAS      |
| SCE           | SOUTHERN CALIFORNIA EDISON   |
| OCWD          | ORANGE COUNTY WATER DISTRICT |

| UTILITY LEGEND |                   |
|----------------|-------------------|
| LINE TYPE      | UTILITY           |
| — T —          | COMMUNICATION     |
| — G —          | GAS               |
| — W —          | WATER             |
| — FO —         | FIBER OPTIC       |
| — SD —         | STORM DRAIN       |
| — SS —         | SEWER             |
| — E —          | ELECTRIC          |
| — E(OH) —      | ELECTRIC OVERHEAD |
| — CTV —        | CABLE TV          |
| ⊙              | POTHOLE           |

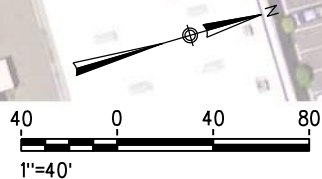


DIAL TOLL FREE  
1-800-277-2600  
AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES (HORIZONTALLY AND VERTICALLY) BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL UNDERGROUND SERVICE ALERT A MINIMUM OF 2 WORKING DAYS PRIOR TO ANY CONSTRUCTION AND SUBMIT REGISTRATION NUMBER TO THE CITY PRIOR TO ANY WORK

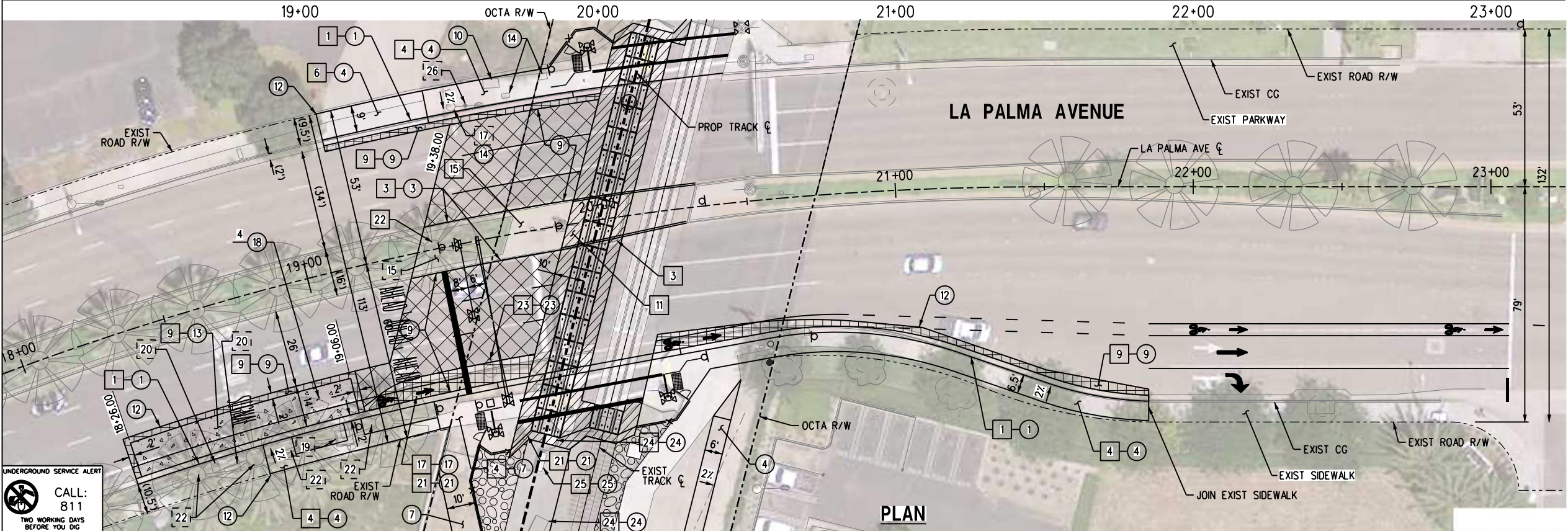
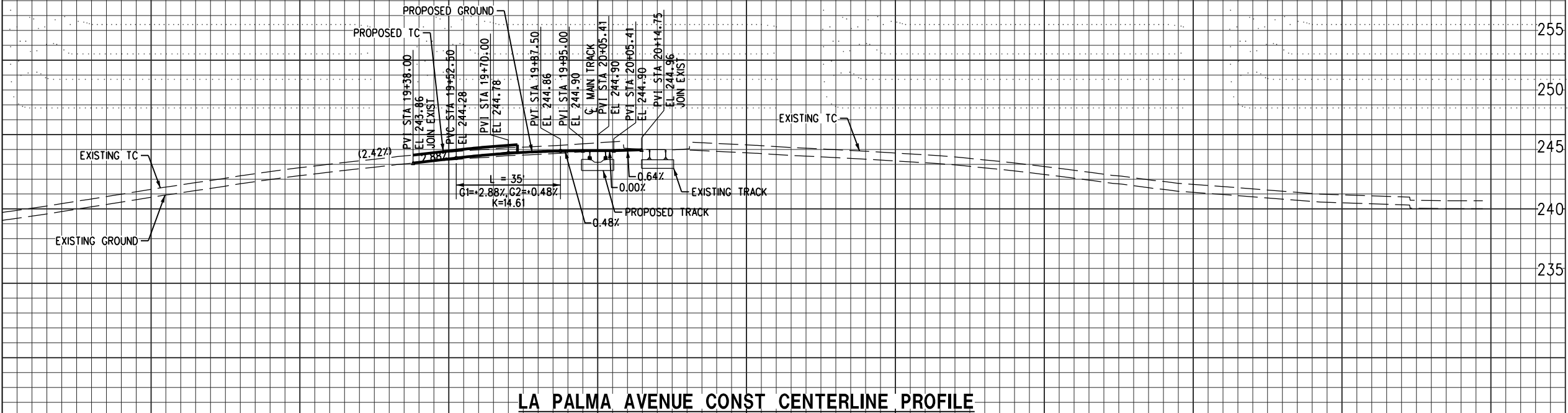


NOT FOR CONSTRUCTION

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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- ELECTRICAL VAULT
- COMMUNICATION CABINET
- PULLBOX
- TREE
- GAS VALVE
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- ELECTRICAL CABINET
- FIRE HYDRANT

NOTES:

- SEE SHEET CP-101 FOR ROADWAY STRIPING ON THIS SHEET.
- SEE SHEET CS-102 FOR GRADE CROSSING STRIPING AND WORK ON THIS SHEET.

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- AC PAVEMENT FOR GRADE CROSSING PER SCRRS ES4001  
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2" MIN GRIND AND OVERLAY  
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UTILITY AGENCIES

- SOCAL SO. CALIFORNIA GAS COMPANY  
SCE SOUTHERN CALIFORNIA EDISON  
AT&T AT&T  
COA CITY OF ANAHEIM  
COO COUNTY OF ORANGE

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| REVISIONS            |      |             |       |         | REFERENCES   |  |  |  |  |
|----------------------|------|-------------|-------|---------|--|--|--|--|--|
| NO.                  | DATE | DESCRIPTION | ENGR. | APPROV. | FOR NOTES TO CONTRACTOR SEE PLAN XXXXX                                     |  |  |  |  |
| 30% SUBMITTAL        |      |             |       |         | FOR STANDARD DETAILS SEE: APWA 111-3, COA: 112-1, 114-A, 115-B, 120, 121-A |  |  |  |  |
| NOT FOR CONSTRUCTION |      |             |       |         | 130-1, 150-2, 151-1, 410, 451-E, 459, 452-B, 453-A, 454-C, 457, 641, W-150 |  |  |  |  |
|                      |      |             |       |         | STREET PLAN NO'S: XXX-XXX STRIPING PLAN NO'S: XXX-XXX                      |  |  |  |  |
|                      |      |             |       |         | DIST. MAP NO. XXX, XXX BENCH MARK NO. XX-XX ELEVATION: XXX.XX'             |  |  |  |  |
|                      |      |             |       |         | BASIS OF BEARING: XXX  |  |  |  |  |
|                      |      |             |       |         | (NAVD 1988)  |  |  |  |  |

|                    |                      |                        |
|--------------------|----------------------|------------------------|
| SCALE: 1"=20'      | DESIGNED BY: D. TRAN | REVIEWED BY: J. TAMAYO |
| PLAN PREPARED BY:  |                      |                        |
| PRINCIPAL ENGINEER |                      |                        |
| R.C.E. No. DATE    |                      |                        |



CITY OF ANAHEIM  
DEPARTMENT OF PUBLIC WORKS  
200 SOUTH ANAHEIM BLVD. #276  
ANAHEIM, CA 92805  
(714) 765-5176  
www.anaheim.net

ROADWAY PLAN & PROFILE  
LA PALMA AVENUE  
ANAHEIM CANYON METROLINK STATION PROJECT  
CITY OF ANAHEIM  
DEPARTMENT OF PUBLIC WORKS

|                          |          |
|--------------------------|----------|
| ACCOUNT NUMBER           |          |
| XXX-412-XXXX-7892        |          |
| 502-521-XXX-7865-XXXX-01 |          |
| 525-521-XXX-7865-XXXX-01 |          |
| SHEET                    | 43 OF 71 |
| PLAN NUMBER              | CS-101   |

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CONSTRUCTION NOTES:

- 1 PEDESTRIAN METAL HANDRAILING PER SCRRRA ES4005
- 2 PEDESTRIAN SWING GATE PER SCRRRA ES4002
- 3 PEDESTRIAN WARNING DEVICE WITH TWO-WAY FLASHERS PER SCRRRA ES8309
- 4 WARNING DEVICE ASSEMBLY PER CPUC G.O. NO.75-D
- 5 AC PAVEMENT FOR GRADE CROSSING PER SCRRRA ES4001
- 6 SCE POWER POLE WITH OH LINES
- 7 3' WIDE DETECTABLE WARNING STRIP PER CALTRANS RSP NO. A88A (LENGTH PER PLAN)
- 8 PRECAST CONCRETE PANEL PER SCRRRA ES4201
- 9 WIRE MESH TYPE FENCE (4' HIGH) PER SCRRRA ES5105
- 10 SIGNAL SHELTER AND RETAINING WALL WITH CABLE FALL PROTECTION PER SCRRRA ES8803
- 11 UTILITY VAULT
- 12 AC VARIABLE THICKNESS
- 13 CANTILEVER ASSEMBLY
- 14 CHAIN LINK FENCE PER SCRRRA ES5106. HEIGHT PER PLAN.
- 15 PULLBOX
- 16 GROUND SIGNAL WITH TWO PLATFORM LADDER ASSEMBLY PER SCRRRA ES8505-01 AND 21 SIGNAL MAST WITH POLE MOUNTED JUNCTION BOX PER SCRRRA ES8506
- 17 ROW SECURITY ACCESS GATE PER SCRRRA ES5107-01
- 18 DOUBLE SWING GATE
- 19 PEDESTRIAN WARNING DEVICE

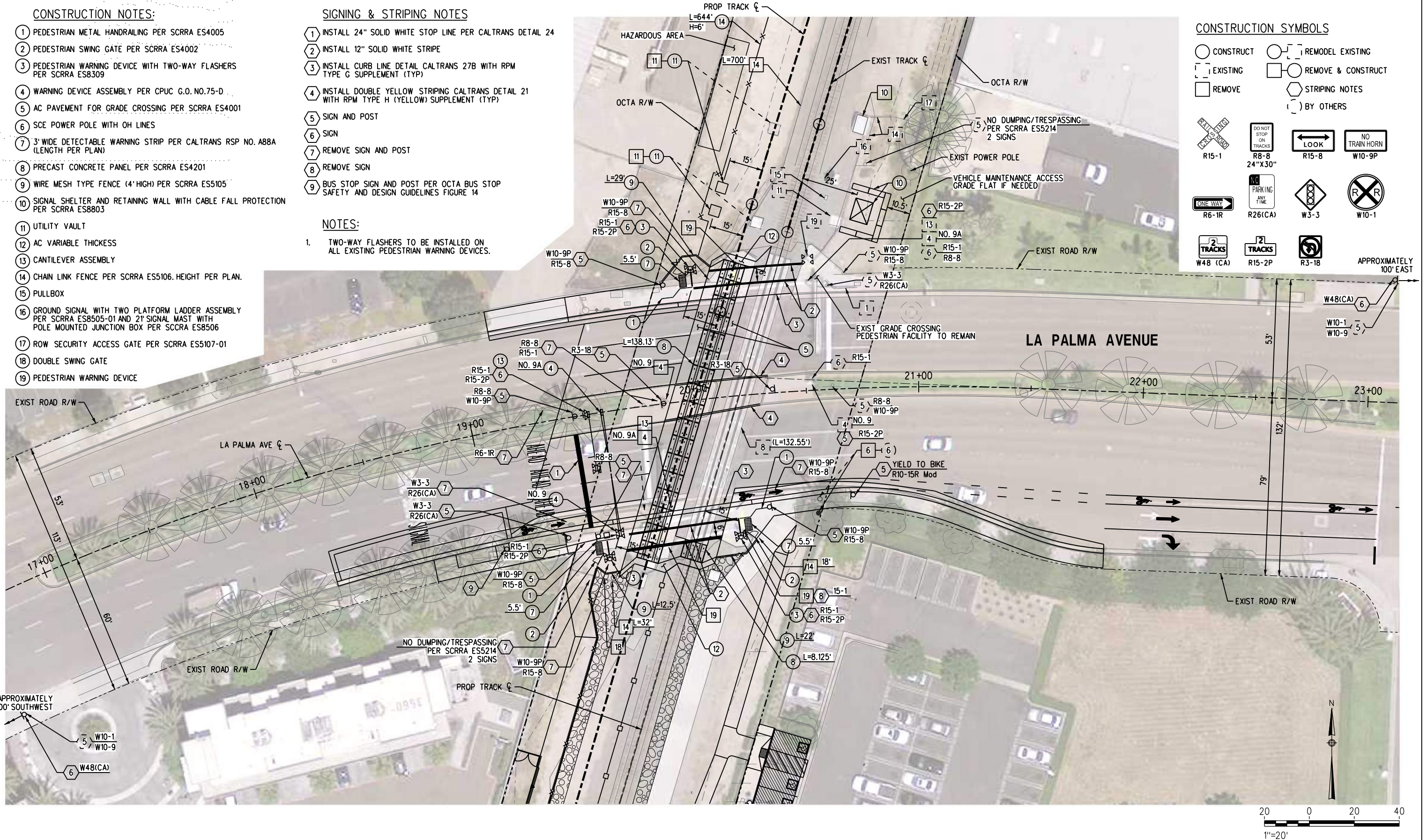
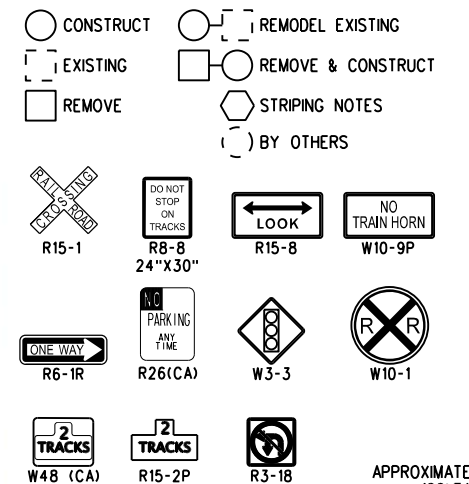
SIGNING & STRIPING NOTES

- 1 INSTALL 24" SOLID WHITE STOP LINE PER CALTRANS DETAIL 24
- 2 INSTALL 12" SOLID WHITE STRIPE
- 3 INSTALL CURB LINE DETAIL CALTRANS 27B WITH RPM TYPE G SUPPLEMENT (TYP)
- 4 INSTALL DOUBLE YELLOW STRIPING CALTRANS DETAIL 21 WITH RPM TYPE H (YELLOW) SUPPLEMENT (TYP)
- 5 SIGN AND POST
- 6 SIGN
- 7 REMOVE SIGN AND POST
- 8 REMOVE SIGN
- 9 BUS STOP SIGN AND POST PER OCTA BUS STOP SAFETY AND DESIGN GUIDELINES FIGURE 14

NOTES:

1. TWO-WAY FLASHERS TO BE INSTALLED ON ALL EXISTING PEDESTRIAN WARNING DEVICES.

CONSTRUCTION SYMBOLS



NOT FOR CONSTRUCTION

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All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.

DESIGNED BY  
D. TRAN  
DRAWN BY  
D. BARRAZA  
CHECKED BY  
J. TAMAYO  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

30%  
SUBMITTAL  
NOT FOR CONSTRUCTION

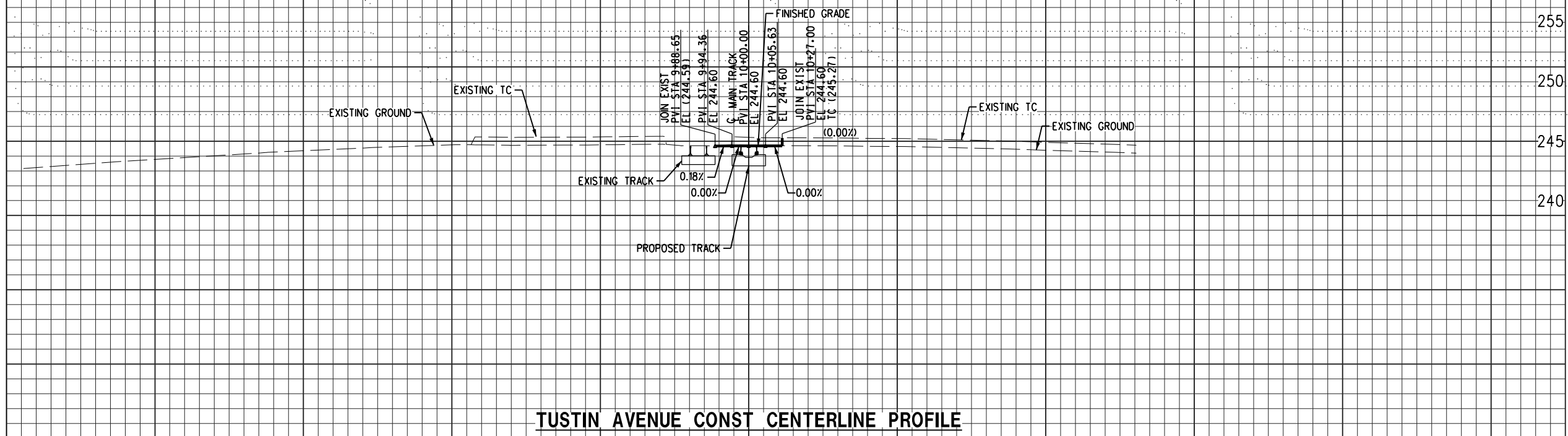
METROLINK®  
STV 100 Years  
ORANGE COUNTY  
TRANSPORTATION  
AUTHORITY  
SUBMITTED: PROJECT MANAGER  
APPROVED:

ANAHEIM CANYON  
METROLINK STATION PROJECT  
GRADE CROSSING LAYOUT PLAN  
LA PALMA AVENUE

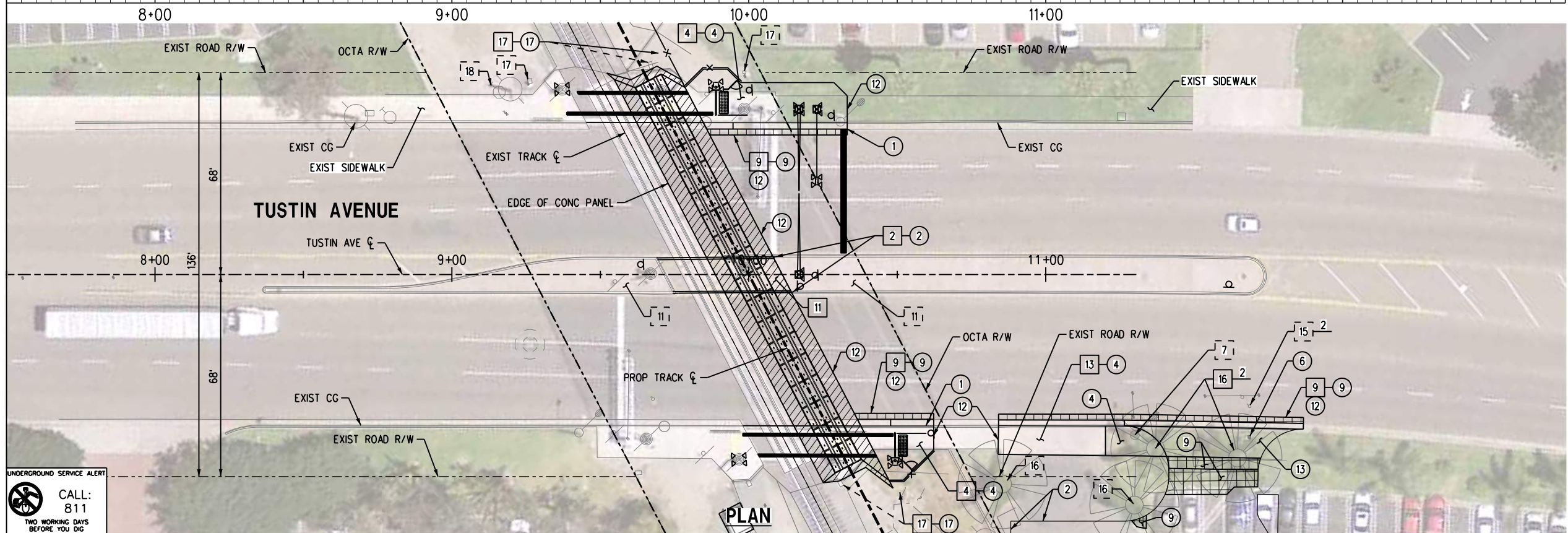
CONTRACT NO. C-4-1977  
DRAWING NO. CS-102  
REVISION SHEET NO. 44 OF 71  
SCALE 1"=20'



PROFILE  
SCALE  
HORIZ. 1" = 20'  
VERT. 1" = 4'



## TUSTIN AVENUE CONST CENTERLINE PROFILE



UNDERGROUND SERVICE ALERT

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811

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BEFORE YOU DIG

## CONSTRUCTION SYMBOLS

- CONSTRUCT      ○ [ ] REMODEL EXISTING  
 [ ] EXISTING      □ ○ REMOVE & CONSTRUCT  
 □ REMOVE      ( ) WORK BY OTHERS




CONSTRUCTION NOTES:

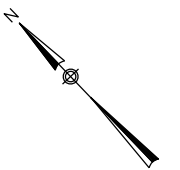
- 1 6" CURB & GUTTER PER COA STD 120, TYPE A
- 2 6" CURB PER COA STD 120, TYPE C
- 3 8" CURB PER COA STD 120, TYPE D
- 4 4" SIDEWALK PER COA STD 110-B
- 5 NOT USED
- 6 RELOCATE FIRE HYDRANT, BY OTHERS
- 7 STREETLIGHT
- 8 NOT USED
- 9 AC PAVEMENT PER COA STD 160-A
- 10 NOT USED
- 11 MEDIAN ISLAND PER COA STD 143
- 12 SAWCUT & JOIN EXISTING
- 13 COMMERCIAL DRIVEWAY APPROACH PER COA STD 115-B, CASE 2
- 14 NOT USED
- 15 WATER VALVE
- 16 TREE
- 17 PULLBOX
- 18 GAS VALVE

NOTES:

1. SEE SHEET CS-112 FOR GRADE CROSSING STRIPING AND WORK ON THIS SHEET.

LEGEND

- |   |   |
|---|---|
|  | AC PAVEMENT FOR GRADE CROSSING<br>PER SCRR A ES4001 |
|  | 2" MIN GRIND AND OVERLAY                            |
|  | AC PAVEMENT PER COA STD 160-A                       |

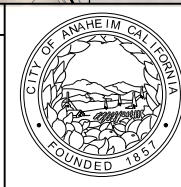


## UTILITY AGENCIES . . .

- |             |                                  |
|-------------|----------------------------------|
| SOCAL . . . | SO. CALIFORNIA GAS COMPANY . . . |
| SCE         | SOUTHERN CALIFORNIA EDISON       |
| AT&T . . .  | AT&T . . . . .                   |
| COA         | CITY OF ANAHEIM                  |
| COO         | COUNTY OF ORANGE                 |

| REVISIONS |      |                      |       |         | REFERENCES   |  |
|-----------|------|----------------------|-------|---------|--|--|
| NO.       | DATE | DESCRIPTION          | ENGR. | APPROV. | FOR NOTES TO CONTRACTOR SEE PLAN XXXXX                                 |  |
|           |      | 30% SUBMITTAL        |       |         | FOR STANDARD DETAILS SEE: APWA 111-3, COA: 112-1,114-A,115-B,120,121-A |  |
|           |      |                      |       |         | 130-1,150-2,151-1,410,451-E,459,452-B,453-A,454-C,457,641,W-150        |  |
|           |      |                      |       |         | STREET PLAN NO's: XXX-XXX STRIPING PLAN NO's: XXX-XXX                  |  |
|           |      | NOT FOR CONSTRUCTION |       |         | DIST. MAP NO. XXX, XXX BENCH MARK NO. XX-XX ELEVATION: XXX.XX'         |  |
|           |      |                      |       |         | BASIS OF BEARING: XXX  |  |
|           |      |                      |       |         | (NAVD 1988)  |  |

|   |                      |   |
|---|----------------------|---|
| SCALE: 1"=20'   | DESIGNED BY: D. TRAN | REVIEWED BY: A. BOSCH   |
| PLAN PREPARED BY:   |                      |   |
| <div style="text-align: center;"> <hr/>             PRINCIPAL ENGINEER           </div> |                      |   |
| <div style="text-align: center;"> <hr/>             R.C.E. No.           </div>         |                      | <div style="text-align: center;"> <hr/>             DATE           </div> |



**CITY OF ANAHEIM**  
DEPARTMENT OF PUBLIC WORKS  
200 SOUTH ANAHEIM BLVD. #276  
ANAHEIM, CA 92805  
(714) 765-5176  
[www.anaheim.net](http://www.anaheim.net)

# ROADWAY PLAN & PROFILE TUSTIN AVENUE ANAHEIM CANYON METROLINK STATION PROJECT

CITY OF ANAHEIM  
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER  
XXX-412-XXXX-7892  
502-521-XXX-7865-XXXXX-01  
525-521-XXX-7865-XXXXX-01

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SHEET 45 OF 71

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PLAN NUMBER CS-111

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| REV. | DATE | BY | SUB. | APP. |
|------|------|----|------|------|
|      |      |    |      |      |

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All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential, and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.

DESIGNED BY  
D. TRAN  
DRAWN BY  
D. BARRAZA  
CHECKED BY  
J. TAMAYO  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

30%  
SUBMITTAL  
NOT FOR CONSTRUCTION

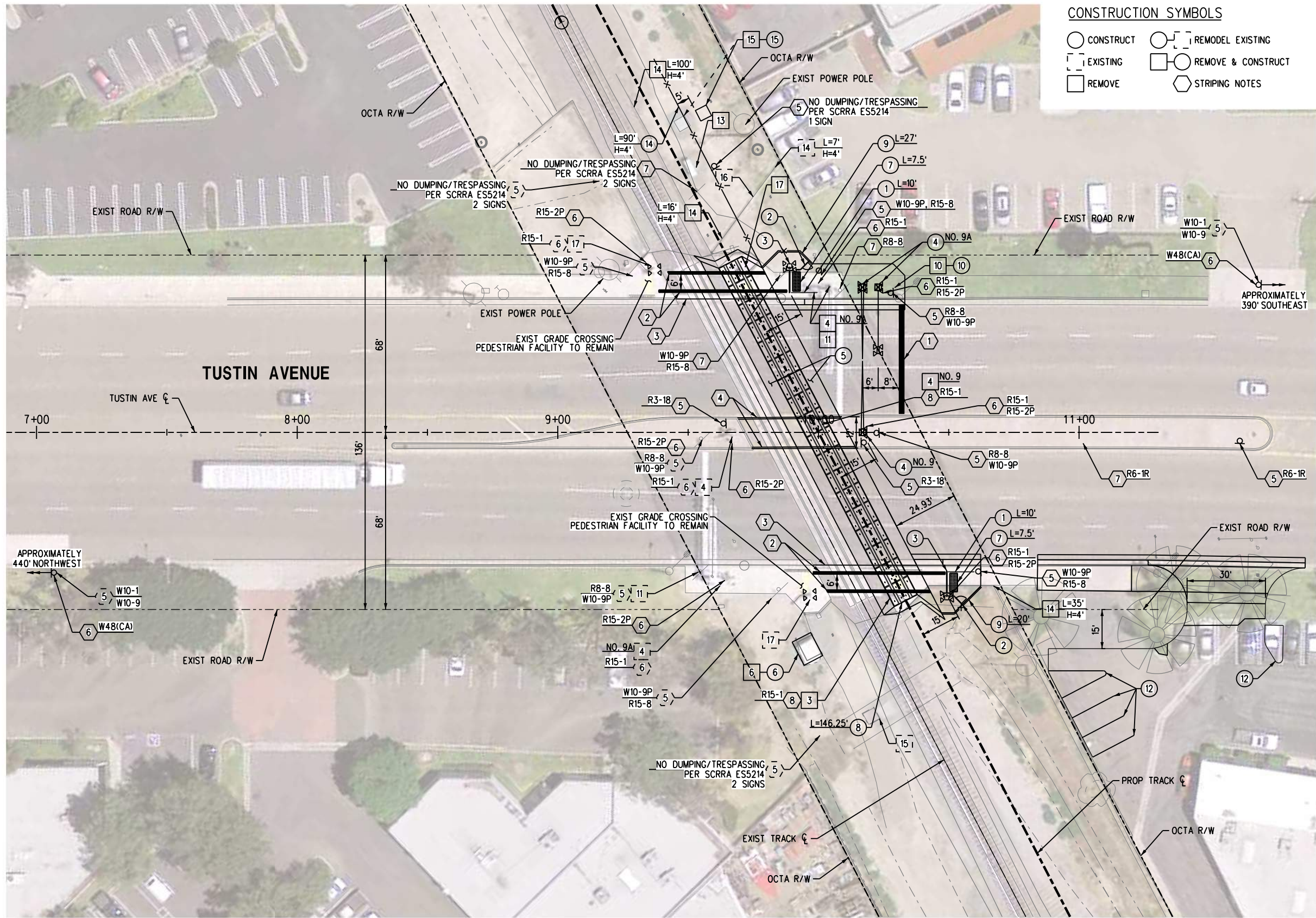
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SUBMITTED: \_\_\_\_\_ PROJECT MANAGER  
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
GRADE CROSSING LAYOUT PLAN  
TUSTIN AVENUE

CONTRACT NO. C-4-1977  
DRAWING NO. CS-112  
REVISION SHEET NO. 46 OF 71  
SCALE 1"=20'











- CONSTRUCTION NOTES:**
- 1 PEDESTRIAN METAL HANDRAILING PER SCRR ES4005
  - 2 PEDESTRIAN SWING GATE PER SCRR ES4002
  - 3 PEDESTRIAN WARNING DEVICE WITH TWO-WAY FLASHERS PER SCRR ES8309
  - 4 WARNING DEVICE ASSEMBLY PER CPUC GO NO. 75-D
  - 5 AC PAVEMENT FOR GRADE CROSSING PER SCRR ES4001
  - 6 SIGNAL SHELTER, BY OTHERS
  - 7 3' WIDE DETECTABLE WARNING STRIP PER CALTRANS RSP NO. A88A (LENGTH PER PLAN)
  - 8 PRECAST CONCRETE PANEL PER SCRR ES4201
  - 9 WIRE MESH TYPE FENCE (4' HIGH) PER SCRR ES5105
  - 10 STREET LIGHT
  - 11 CANTILEVER ASSEMBLY
  - 12 4" WHITE STRIPE PER CALTRANS STANDARD PLAN A20A
  - 13 SIGNAL CASE, BY OTHERS
  - 14 CHAIN LINK FENCE, HEIGHT PER PLAN
  - 15 UTILITY VAULT
  - 16 ROW SECURITY ACCESS GATE PER SCRR ES5107-01
  - 17 PEDESTRIAN WARNING DEVICE



- SIGNING AND STRIPING NOTES:**
- 1 INSTALL 24" SOLID WHITE STOP LINE PER CALTRANS DETAIL 24
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  - 7 REMOVE SIGN AND POST
  - 8 REMOVE SIGN

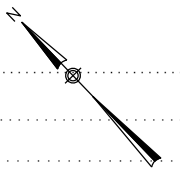
**NOTES:**

1. TWO-WAY FLASHERS TO BE INSTALLED ON ALL EXISTING PEDESTRIAN WARNING DEVICES.

  
R15-1 R8-8 R15-8 W48 (CA)

  
R6-1R R26(CA) W10-1 R3-1B

  
R15-2P W10-9P

  
20 0 20 40  
1"=20'



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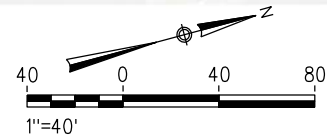
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|      |      |    |     |      |   |  |   |  |   |  |
|------|------|----|-----|------|---|--|---|--|---|--|
| REV. | DATE | BY | SUB | APP. | <div>INFORMATION CONFIDENTIAL:<br/>All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.</div> | <div>DESIGNED BY<br/>D. UNGSON</div> <div>DRAWN BY<br/>D. UNGSON</div> <div>CHECKED BY<br/>R. QUIRK</div> <div>APPROVED BY<br/>A. SOKOL</div> <div>DATE<br/>01-20-2017</div> | <div>30%<br/>SUBMITTAL<br/>NOT FOR CONSTRUCTION</div> | <div><b>METROLINK®</b></div> <div><div></div><div><b>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</b></div></div> <div>SUBMITTED: _____<br/>PROJECT MANAGER</div> <div>APPROVED: _____</div> | <div><b>ANAHEIM CANYON<br/>METROLINK STATION PROJECT</b><br/>ANAHEIM CANYON STATION<br/>ARCHITECTURAL<br/>SYMBOLS AND NOTES</div> | <div>CONTRACT NO. PS2415-3412</div> <div>DRAWING NO. AS-101</div> <div><div>REVISION</div><div>SHEET NO.<br/>47 OF 71</div></div> <div><div>SCALE</div><div>NONE</div></div> |
|------|------|----|-----|------|---|--|---|--|---|--|



| ABBREVIATIONS |        |                                     |          |          |                              |                           |          |                                      |                       |                            |                                    |          |          |  |                     |                              |                                       |
|---------------|--------|-------------------------------------|----------|----------|------------------------------|---------------------------|----------|--------------------------------------|-----------------------|----------------------------|------------------------------------|----------|----------|--|---------------------|------------------------------|---------------------------------------|
| <b>A</b>      | ACC    | ACCESS, ACCESSIBLE                  | <b>D</b> | DEP      | DEPRESSED, DEPTH             | <b>F</b>                  | FRPP     | FIBERGLASS REINFORCED PLASTIC PANELS | <b>M</b>              | MAS                        | MASONRY                            | <b>Q</b> | QTY      | QUANTITY   | <b>T</b>            | TEL                          | TELEPHONE                             |
|               | ACOUS  | ACOUSTICAL                          |          | DET      | DETAIL                       |                           | FS       | FINISH SURFACE                       |                       | MAINT                      | MAINTENANCE                        |          |          |  |                     | T&B                          | TOP AND BOTTOM                        |
|               | AD     | AREA DRAIN                          |          | DF       | DRINKING FOUNTAIN            |                           | FT       | FOOT, FEET                           |                       | MAX                        | MAXIMUM                            |          |          |  |                     | TBD                          | TO BE DETERMINED                      |
|               | ADA    | AMERICANS WITH DISABILITIES ACT     |          | DIA      | DIAMETER                     |                           | FTG      | FOOTING                              |                       | MECH                       | MECHANICAL                         |          | <b>R</b> | R  | RADIUS              | TBR                          | TO BE REMOVED                         |
|               | AFG    | ABOVE FINISHED GRADE                |          | DIAG     | DIAGONAL                     |                           | F TO F   | FACE TO FACE                         |                       | MED                        | MEDIAN, MEDIUM                     |          |          | (R)  | RECESSED, RELOCATED | TD                           | TOP OF DECK                           |
|               | AFF    | ABOVE FINISHED FLOOR                |          | DIM      | DIMENSION                    |                           | FUR      | FURRING                              |                       | MEM                        | MEMBRANCE                          |          |          | RB   | RESILIENT BASE      | TDD                          | TELECOMMUNICATION DEVICE FOR THE DEAF |
|               | ALIGN  | ALIGNMENT                           |          | DIR      | DIRECTION                    |                           | FWY      | FREEWAY                              |                       | MET/MTL                    | METAL                              |          |          | RC   | REINFORCED CONCRETE | TEMP                         | TEMPORARY                             |
|               | ALT    | ALTERNATE                           |          | DISP     | DISPENSER                    |                           | <b>G</b> | GA                                   | GAGE, GAUGE           | MFG                        | MANUFACTURER                       | RCTC     |          | RIVERSIDE COUNTY TRANSPORTATION COMMISSION                     | TG                  | TOP OF GRADE                 |                                       |
|               | ALUM   | ALUMINUM                            |          | DN       | DOWN                         |                           |          | GALV                                 | GALVANIZED            | MH                         | MANHOLE                            | RCFC&WCD |          | RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT | THK                 | THICK(NESS)                  |                                       |
|               | AP     | ACCESS PANEL                        |          | DO       | DOOR OPENING                 |                           |          | GEN                                  | GENERAL               | MIN                        | MINIMUM                            | RD       |          | ROAD   | TK                  | TRACK                        |                                       |
|               | APPROX | APPROXIMATE, APPROXIMATELY          |          | DP       | DISABLED PERSON              |                           |          | GL                                   | GLASS, GLAZING        | MIRR                       | MIRROR                             | RDWY     |          | ROADWAY  | TOC                 | TOP OF CONCRETE, TOP OF CURB |                                       |
|               | APWA   | AMERICAN PUBLIC WORKS ASSOCIATION   |          | DR       | DOOR, DRIVE                  |                           |          | GLB                                  | GLU-LAMINATED BEAM    | MISC                       | MISCELLANEOUS                      | RE-      |          | REFER  | TOL                 | TOLERANCE                    |                                       |
|               | ARCH   | ARCHITECT, ARCHITECTURAL            |          | DRWY     | DRIVEWAY                     |                           |          | GND                                  | GROUND                | MJPA                       | MARCH JOINT POWERS AUTHORITY       | RECT     |          | RECTANGULAR  | TOM                 | TOP OF MASONRY               |                                       |
|               | A/R    | AS REQUIRED                         |          | DS       | DOWNSPOUT                    |                           |          | GR                                   | GUARDRAIL/ GRADE      | MO                         | MASONRY OPENING                    | REF      |          | REFERENCE  | TOP                 | TOP OF PIPE                  |                                       |
|               | ASSY   | ASSEMBLY                            |          | DVM      | DEBIT CARD VALIDATOR MACHINE |                           |          | GRD                                  | GRADE, GRADING        | MOD                        | MODIFIED                           | REINF    |          | REINFORCE, REINFORCED  | TOR                 | TOP OF RAIL                  |                                       |
|               | ATR    | ABOVE TOP OF RAIL                   |          | DWG(S)   | DRAWING, DRAWINGS            |                           |          | GRTG                                 | GRATING               | MON                        | MONUMENT                           | REL      |          | RELOCATE(D)  | TOS                 | TOP OF SLOPE                 |                                       |
|               | AVE    | AVENUE                              |          | <b>E</b> | E                            | EAST                      |          | GSP                                  | GALVANIZED STEEL PIPE | MTD                        | MOUNTED                            | REMO     |          | REMOVE(D)  | TOW                 | TOP OF WALL                  |                                       |
| <b>B</b>      | BD     | BOARD                               |          |          | (E)                          | EXISTING                  |          | GVL                                  | GRAVEL                | MTG                        | MOUNTING                           | REQD     |          | REQUIRED   | TP                  | TOP OF PLATFORM              |                                       |
|               | BEL    | BELOW                               |          |          | EA                           | EACH                      |          | GYP                                  | GYP SUM               | MTTV                       | MULTITRIP TICKET VALIDATOR MACHINE | RESIL    |          | RESILIENT  | TPD                 | TOILET PAPER DISPENSER       |                                       |
|               | BET    | BETWEEN                             |          |          | EB                           | EASTBOUND, EXPANSION BOLT |          | GYP BD                               | GYP SUM BOARD         | MUL                        | MULLION                            | REV      |          | REVISION, REVISED  | T/R                 | TOP OF RAIL                  |                                       |
|               | BITUM  | BITUMINOUS                          |          |          | EF                           | EACH FACE                 |          | <b>H</b>                             | H                     | HIGH                       |                                    | RH       |          | RIGHT HAND   | TVM                 | TICKET VENDING MACHINE       |                                       |
|               | BLDG   | BUILDING                            |          |          | EFC                          | EXPOSED FINISH CONCRETE   |          |                                      | HB                    | HOSE BIBB                  |                                    | RL       |          | RAIL(ING)  | TYP                 | TYPICAL                      |                                       |
|               | BLKG   | BLOCKING                            |          |          | EG                           | EDGE OF GUTTER            |          |                                      | HC                    | HOLLOW CORE, HANDICAP(PED) |                                    | RM       |          | ROOM   | <b>U</b>            | UNF                          | UNFINISHED                            |
|               | BLVD   | BOULEVARD                           |          |          | EJ                           | EXPANSION JOINT           |          |                                      | HD                    | HEAVY DUTY                 |                                    | RO       |          | ROUGH OPENING  |                     | UNO                          | UNLESS NOTED OTHERWISE                |
|               | BNSF   | BURLINGTON NORTHEN SANTA FE RAILWAY |          |          | EL                           | ELEVATION                 |          |                                      | HDR                   | HEADER                     |                                    | ROW, R/W |          | RIGHT OF WAY   |                     | UTIL                         | UTILITY                               |

|   |      |    |  |      |   |  |   |  |  |  |   |  |  |  |                          |  |
|---|------|----|--|------|---|--|---|--|--|--|---|--|--|--|--------------------------|--|
| <div style="text-align: center; font-size: 2em; transform: rotate(-2deg); opacity: 0.5;">NOT FOR CONSTRUCTION</div> |      |    | INFORMATION: CONFIDENTIAL:<br>All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the the Southern California Regional Rail Authority and shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority. |      | DESIGNED BY<br><div style="text-align: center;">D. UNGSON</div>   |  | <div style="text-align: center;"> <div style="font-size: 2em; font-weight: bold;">METROLINK®</div> </div> |  | <div style="text-align: center;"> <div style="font-size: 1.5em; font-weight: bold;">STV</div> </div> |  | <div style="text-align: center;"> <div style="font-size: 1.2em; font-weight: bold;">ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</div> </div> |  | <div style="text-align: center;"> <div style="font-size: 1.5em; font-weight: bold;">ANAHEIM CANYON<br/>METROLINK STATION PROJECT</div> <div style="font-size: 1.2em; font-weight: bold;">ANAHEIM CANYON STATION</div> <div style="font-size: 1.2em; font-weight: bold;">ARCHITECTURAL<br/>ABBREVIATIONS</div> </div> |  | CONTRACT NO. PS2415-3412 |  |
|   |      |    | DRAWN BY<br><div style="text-align: center;">D. UNGSON</div>   |      | DRAWING NO.<br><div style="text-align: center;">AS-102</div>  |  |   |  |  |  |   |  |  |  |                          |  |
|   |      |    | CHECKED BY<br><div style="text-align: center;">R. QUIRK</div>  |      | REVISION<br><div style="text-align: center;">SHEET NO.</div>  |  |   |  |  |  |   |  |  |  |                          |  |
|   |      |    | APPROVED BY<br><div style="text-align: center;">A. SOKOL</div>   |      | <div style="text-align: center;">48 OF 71</div>   |  |   |  |  |  |   |  |  |  |                          |  |
|   |      |    | DATE<br><div style="text-align: center;">01-20-2017</div>  |      | SCALE<br><div style="text-align: center;">NONE</div>  |  |   |  |  |  |   |  |  |  |                          |  |
| REV.  | DATE | BY | SUB.   | APP. | <div style="text-align: center; font-size: 1.5em; font-weight: bold;">30%<br/>SUBMITTAL</div> <div style="text-align: center;">NOT FOR CONSTRUCTION</div> |  | SUBMITTED: _____<br><div style="text-align: center;">PROJECT MANAGER</div>                                |  | APPROVED: _____  |  |   |  |  |  |                          |  |



|                                 |      |    |      |   |  |             |  |   |  |   |  |
|---------------------------------|------|----|------|---|--|-------------|--|---|--|---|--|
| <div>NOT FOR CONSTRUCTION</div> |      |    |      | <div>INFORMATION CONFIDENTIAL :<br/>All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the the Southern California Regional Rail Authority and shall be held confidentially and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.</div> |  | DESIGNED BY |  | <div>30%<br/>SUBMITTAL<br/>NOT FOR CONSTRUCTION</div> |  | <div><div>METROLINK®</div><div><div></div><div>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</div></div><div>SUBMITTED: _____<br/>PROJECT MANAGER</div><div>APPROVED: _____</div></div> |  |
|                                 |      |    |      |   |  | D. UNGSON   |  |   |  |   |  |
|                                 |      |    |      |   |  | DRAWN BY    |  |   |  |   |  |
|                                 |      |    |      |   |  | D. UNGSON   |  |   |  |   |  |
|                                 |      |    |      |   |  | CHECKED BY  |  |   |  |   |  |
| R. QUIRK                        |      |    |      |   |  |             |  |   |  |   |  |
| APPROVED BY                     |      |    |      |   |  |             |  |   |  |   |  |
| A. SOKOL                        |      |    |      |   |  |             |  |   |  |   |  |
| DATE                            |      |    |      |   |  |             |  |   |  |   |  |
| 01-20-2017                      |      |    |      |   |  |             |  |   |  |   |  |
| REV.                            | DATE | BY | SUB. | APP.  |  |             |  |   |  |   |  |

|                          |           |
|--------------------------|-----------|
| CONTRACT NO. PS2415-3412 |           |
| DRAWING NO. AS-105       |           |
| REVISION                 | SHEET NO. |
|                          | 49 OF 71  |
| SCALE 1" = 40'-0"        |           |

|   |  |
|---|--|
| ANAHEIM CANYON<br>METROLINK STATION PROJECT<br>ANAHEIM CANYON STATION<br>OVERALL STATION<br>SITE PLAN |  |
|---|--|



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C:\Cad Standards\UCSRA Standards\Plotting\UCSRA-Plot\_Color\_Half.plt

NOT FOR CONSTRUCTION

| REV. | DATE | BY | SUB. | APP. |
|------|------|----|------|------|
|      |      |    |      |      |
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|             |            |
|-------------|------------|
| DESIGNED BY | D. UNGSON  |
| DRAWN BY    | D. UNGSON  |
| CHECKED BY  | R. QUIRK   |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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SUBMITTAL  
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TRANSPORTATION  
AUTHORITY**

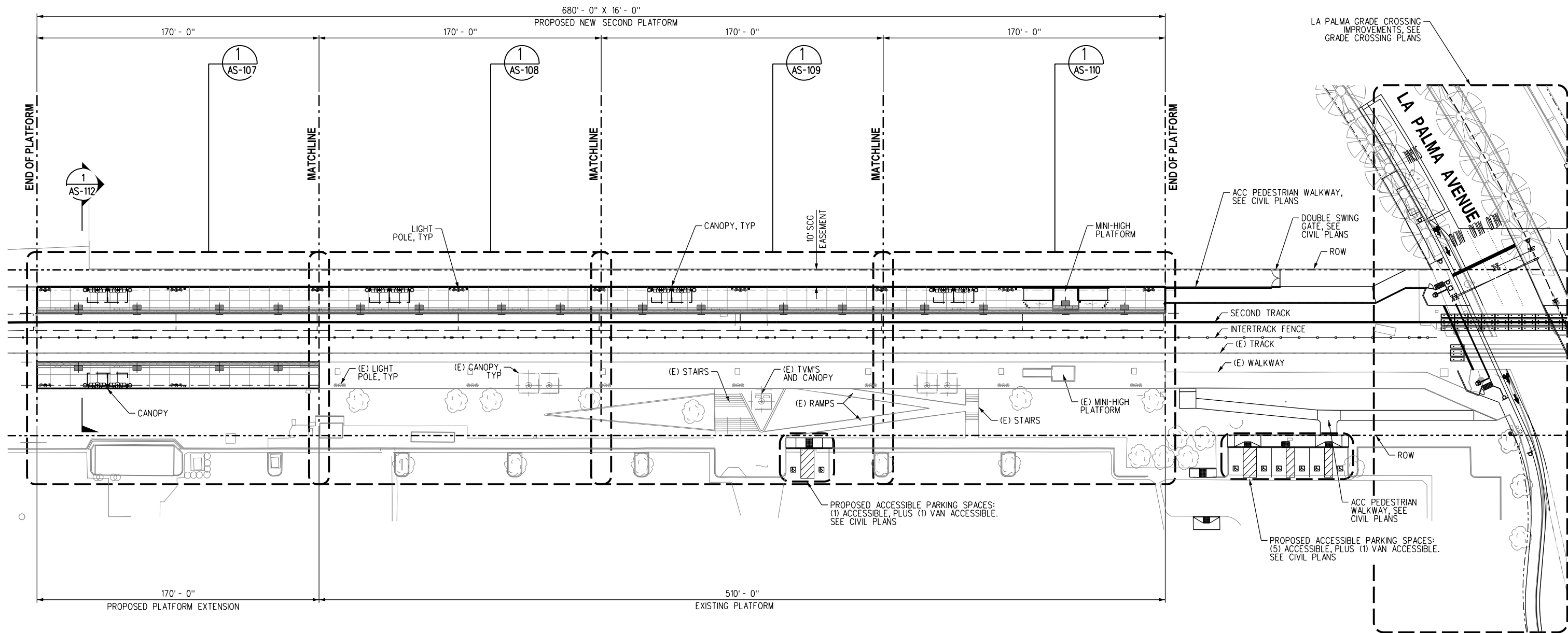
SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

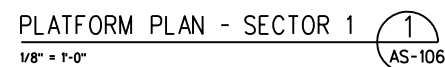
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**

ANAHEIM CANYON STATION  
OVERALL PLATFORM PLAN

|              |             |
|--------------|-------------|
| CONTRACT NO. | PS2415-3412 |
| DRAWING NO.  | AS-106      |
| REVISION     | SHEET NO.   |
|              | 50 OF 71    |
| SCALE        | 1" = 30'-0" |

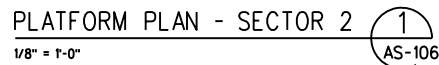




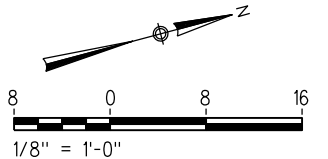
A graphic scale bar is shown below the plan view, indicating distances in feet. The scale is marked from 0 to 16 feet, with intermediate markings at 8 feet. Below the scale bar, the text  $1/8" = 1'-0"$  is written.

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO.<br>AS-107    |                       |
| REVISION                 | SHEET NO.<br>51 OF 71 |
| SCALE<br>1/8" = 1' - 0"  |                       |





|   |   |                                    |
|---|---|------------------------------------|
| ① PLATFORM  | ⑥ EJ (EXPANSION JOINT)                          | ⑩ (E) PLATFORM<br>TO REMAIN, TYP   |
| ② CANOPY  | ⑦ QUICK CONNECT COUPLER<br>IN RECESSED BOX, TYP | ⑪ (E) CANOPY<br>TO REMAIN, TYP     |
| ③ DETECTABLE WARNING TILE PER<br>METROLINK STANDARD ES-3203 | ⑧ AREA DRAIN                                    | ⑫ (E) LIGHT POLE<br>TO REMAIN, TYP |
| ④ DETECTABLE DIRECTIONAL TEXTURE<br>PER 2013 CBC 11B-705.2  | ⑨ 6" HIGH CONC CURB                             |                                    |
| ⑤ 3'-6" HIGH GUARDRAIL                                      |   |                                    |



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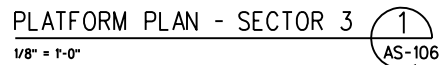
|             |            |
|-------------|------------|
| DESIGNED BY | D. UNGSON  |
| DRAWN BY    | D. UNGSON  |
| CHECKED BY  | R. QUIRK   |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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**ANAHEIM CANYON**  
**METROLINK STATION PROJECT**  
ANAHEIM CANYON STATION  
PLATFORM AND CANOPY PLAN  
SHEET 2 OF 4

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO.<br>AS-108    |                       |
| REVISION                 | SHEET NO.<br>52 OF 71 |
| SCALE<br>1/8" = 1'-0"    |                       |



① PLATFORM

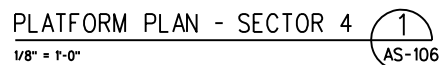
- 
- A graphic scale bar is shown below the map, with markings for 8, 0, 8, and 16. Below the bar, the text reads: 1/8" = 1'-0". Above the scale bar, a north arrow points towards the top right, labeled with 'N'.

|             |            |
|-------------|------------|
| DESIGNED BY | D. UNGSON  |
| DRAWN BY    | D. UNGSON  |
| CHECKED BY  | R. QUIRK   |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

|   |  |   |  |
|---|--|---|--|
|   |  | <h1>METROLINK®</h1>   |  |
|   |  |  <p>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</p> |  |
| <p>SUBMITTED: _____</p> <p>PROJECT MANAGER</p>  |  | <p>APPROVED: _____</p>  |  |

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO.<br>AS-109    |                       |
| REVISION                 | SHEET NO.<br>53 OF 71 |
| SCALE<br>1/8" = 1' - 0"  |                       |



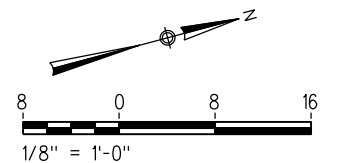


- 1 PLATFORM
- 2 CANOPY
- 3 DETECTABLE WARNING TILE PER METROLINK STANDARD ES-3203
- 4 DETECTABLE DIRECTIONAL TEXTURE PER 2013 CBC 11B-705.2

- ⑤ 3'-6" HIGH GUARDRAIL
- ⑥ E.J. (EXPANSION JOINT)
- ⑦ QUICK CONNECT COUP  
IN RECESSED BOX, TY
- ⑧ AREA DRAIN

- 9 6" HIGH CONC CURB
- 10 TYPE 1 SIDE PLATFORM (DOUBLE RAMP)  
PER METROLINK STANDARD ES 3101 (SIM)
- 11 (E) PLATFORM  
TO REMAIN, TYP
- 12 (E) CANOPY  
TO REMAIN, TYP

- 13 (E) LIGHT POLE  
TO REMAIN, TYP
- 14 (E) MINI-HIGH  
PLATFORM TO REMAIN
- 15 (E) PEDESTRIAN  
WALKWAY TO REMAIN
- 16 PEDESTRIAN WALKWAY  
TO LA PALMA AVE,  
SEE CIVIL PLANS



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|             |            |
|-------------|------------|
| DESIGNED BY | D. UNGSON  |
| DRAWN BY    | D. UNGSON  |
| CHECKED BY  | R. QUIRK   |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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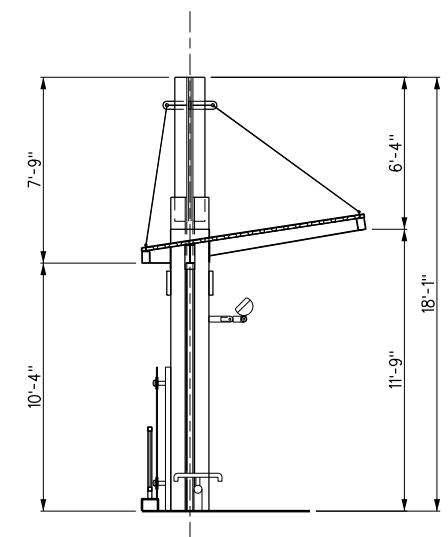
**ANAHEIM CANYON**  
**METROLINK STATION PROJECT**  
ANAHEIM CANYON STATION  
PLATFORM AND CANOPY PLAN  
SHEET 4 OF 4

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO.<br>AS-110    |                       |
| REVISION                 | SHEET NO.<br>54 OF 71 |
| SCALE<br>1/8" = 1'-0"    |                       |



|                                 |  |  |  |   |  |   |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|---|--|---|--|--|--|--|--|--|--|
| <div>NOT FOR CONSTRUCTION</div> |  |  |  | <div>INFORMATION CONFIDENTIAL:<br/>All plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Southern California Regional Rail Authority, and shall be held confidential and shall not be used for any purpose not provided for in agreements with the Southern California Regional Rail Authority.</div> |  | <div>DESIGNED BY</div> <div>D. UNGSON</div> |  | <div><div></div><div>METROLINK®</div></div>                           |  | <div><div>ANAHEIM CANYON<br/>METROLINK STATION PROJECT</div><div>ANAHEIM CANYON STATION<br/>PLATFORM CANOPY PLAN, REFLECTED<br/>CEILING PLAN AND ROOF PLAN</div></div> |  | <div>CONTRACT NO. PS2415-3412</div>      |  |
|                                 |  |  |  |   |  | <div>DRAWN BY</div> <div>D. UNGSON</div>    |  |  |  |  |  | <div>DRAWING NO.</div> <div>AS-111</div> |  |
|                                 |  |  |  |   |  | <div>CHECKED BY</div> <div>R. QUIRK</div>   |  |  |  |  |  | <div>REVISION</div> <div>SHEET NO.</div> |  |
|                                 |  |  |  |   |  | <div>APPROVED BY</div> <div>A. SOKOL</div>  |  |  |  |  |  | <div>55 OF 71</div>                      |  |
|                                 |  |  |  |   |  | <div>DATE</div> <div>01-20-2017</div>       |  |  |  |  |  | <div>SCALE</div> <div>1/2" = 1'-0"</div> |  |
| <div>REV.</div> <div>DATE</div> |  | <div>BY</div> <div>SUB</div> <div>APP.</div> |  | <div>30%<br/>SUBMITTAL</div> <div>NOT FOR CONSTRUCTION</div>  |  | <div>STV</div> <div>100 Years</div>         |  | <div></div> <div>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</div> |  | <div>SUBMITTED: _____</div> <div>PROJECT MANAGER</div>   |  | <div>APPROVED: _____</div>               |  |
|                                 |  |  |  |   |  |   |  |  |  |  |  |  |  |
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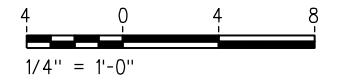


TYP CANOPY SECTION

1/4" = 1'-0"

2

AS-111, AS-112



OVERALL PLATFORM / CANOPY SECTION 1  
1/4" = 1'-0" AS-106. AS-107

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**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
ANAHEIM CANYON STATION  
PLATFORM CANOPY  
SECTIONS & ELEVATIONS

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO.<br>AS-112    |                       |
| REVISION                 | SHEET NO.<br>56 OF 71 |
| SCALE<br>1/4" = 1'-0"    |                       |

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| REV. | DATE | BY | SUB. | APP. |
|------|------|----|------|------|
|      |      |    |      |      |

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|             |            |
|-------------|------------|
| DESIGNED BY | D. UNGSON  |
| DRAWN BY    | D. UNGSON  |
| CHECKED BY  | R. QUIRK   |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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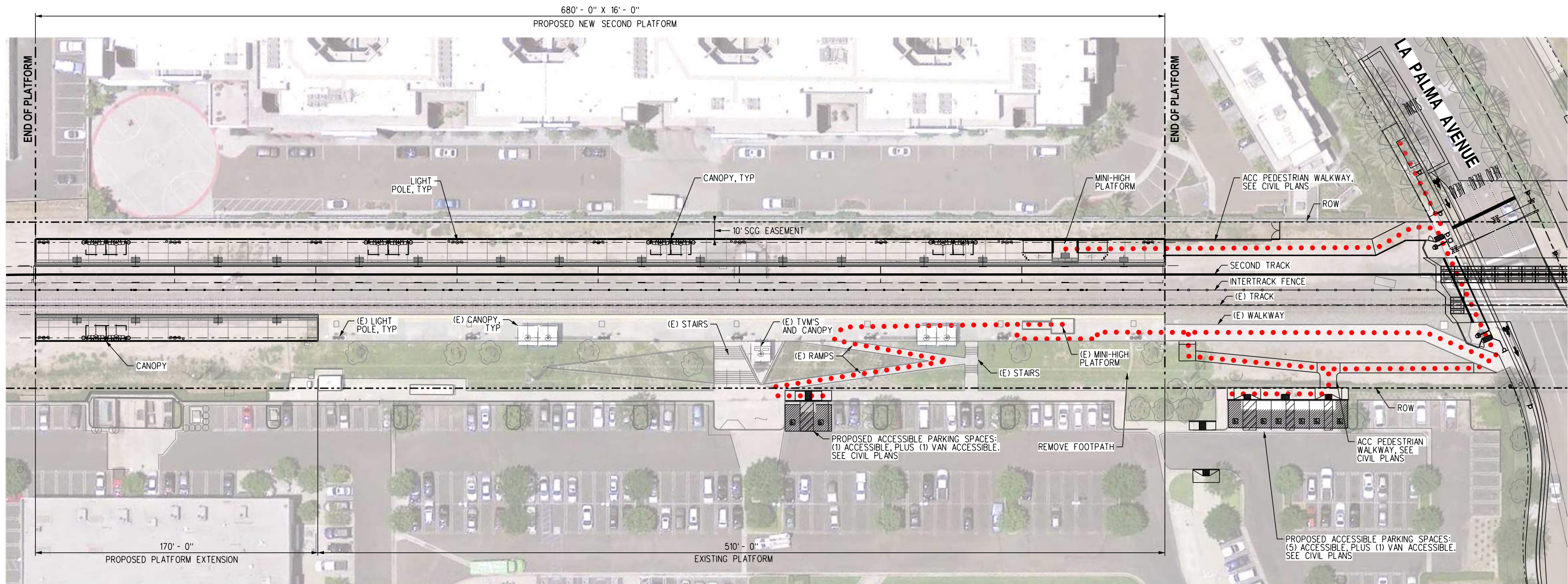
**ORANGE COUNTY  
TRANSPORTATION  
AUTHORITY**

SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

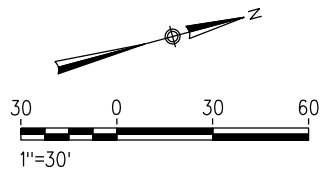
APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
ANAHEIM CANYON STATION  
PATH OF TRAVEL PLAN

|              |             |
|--------------|-------------|
| CONTRACT NO. | PS2415-3412 |
| DRAWING NO.  | AS-151      |
| REVISION     | SHEET NO.   |
|              | 57 OF 71    |
| SCALE        | 1" = 30'-0" |



..... ACCESSIBLE PATH OF TRAVEL





THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

2015 CALIFORNIA BUILDING CODE AND TITLE 24 C.C.R. AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE RESIDENT ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE COMMISSION.

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ITS OCCUPANTS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, THE INSTALLATION OF BARRIERS TO MINIMIZE EXCESSIVE NOISE, ETC. OBSERVATION VISITS TO THE SITE BY THE RESIDENT ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED.

ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION,  
CURRENT AT DATE OF CONTRACT.

F. MAINTAIN A COPY OF ALL SHOP DRAWINGS ACCEPTED BY RESIDENT ENGINEER AT SITE DURING CONSTRUCTION PERIOD.

|                          |                       |
|--------------------------|-----------------------|
| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO.<br>SS-101    |                       |
| REVISION                 | SHEET NO.<br>58 OF 71 |
| SCALE<br>NONE            |                       |

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN COMPLIANCE WITH CHAPTER 22 OF CALIFORNIA BUILDING CODE, AND IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATIONS AS NOTED BELOW AND TO THE AISC SPECIFICATIONS FOR FABRICATION AND ERECTION:
  - A. WIDE FLANGE SHAPES: ASTM A572 GRADE 50 OR A992
  - B. OTHER ROLLED SHAPES AND PLATES: A36 U.N.O.
  - C. PIPES: ASTM A53, GRADE B (35 KSI)
  - D. TUBES: ASTM A500, GRADE B (46 KSI)
3. STEEL IDENTIFICATION PROCEDURES SHALL CONFORM TO ASTM A6.
4. BOLTS:
  - B. HIGH STRENGTH BOLTS – ASTM A325, UNO
  - C. ANCHOR BOLTS IN CONCRETE – ASTM F1554 GRADE 36 HEADED ROD

1. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CBC CODE SECTION 1906.4 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS. AND ACI 360R.
2. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE ENGINEER FOR APPROVAL BY THE STRUCTURAL ENGINEER BEFORE STARTING CONSTRUCTION.

1. THE STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH COUNTY CODES. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
2. THE OWNER SHALL EMPLOY A CIVIL OR STRUCTURAL ENGINEER OR ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE ENGINEER OR ARCHITECT SHALL BE REGISTERED OR LICENSED IN THE STATE OF CALIFORNIA. THE DEPARTMENT OF BUILDING AND SAFETY RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN WHEN THEY ARE INDEPENDENT OF THE CONTRACTOR.
3. THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER. A LETTER FROM THE OWNER OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT. THE STRUCTURAL OBSERVER SHALL ALSO INFORM THE OWNER OF THE REQUIREMENTS FOR A PRECONSTRUCTION MEETING AND SHALL PRESIDE OVER THIS MEETING.
4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.
5. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER:

|   | CONSTRUCTION STAGES         | ELEMENTS OR CONNECTIONS TO BE OBSERVED           |
|---|-----------------------------|--|
| A | PRIOR TO CONCRETE PLACEMENT | REINFORCING IN FOOTINGS, GRADE BEAMS, RET. WALLS |
| B | FINAL                       | FINAL  |

1. GENERAL: REFER TO CHAPTER 17 OF CBC, TITLE 24 FOR AMPLIFICATION OF, AND/OR EXCEPTIONS TO, THE FOLLOWING REQUIREMENTS (E.G., MASONRY, WELDING, ETC.). ALL SPECIAL INSPECTORS MUST SUBMIT FINAL REPORTS. REQUIRED ☒

2. FOUNDATIONS: ☒

3. CONCRETE: ☒

A. CONCRETE OVER 2500 PSI AT 28 DAYS ..... ☒

B. CONCRETE PLACEMENT AT SLAB ON GRADE..... ☐

C. REINFORCEMENT PLACEMENT VERIFICATION OF MILL REPORTS  
AND IDENTIFICATION OF STEEL AND AT JOB SITE..... ☐

4. WELDING: (SEE CBC FOR EXCEPTIONS) ☒

A. WELDING SHALL BE INSPECTED BY AN AWS CERTIFIED INSPECTOR  
APPROVED BY THE BUILDING DEPARTMENT..... ☒

5. BOLTING: ☐

A. HIGH STRENGTH BOLTING (FIELD)..... ☐

B. EXPANSION BOLTS IN CONCRETE OR MASONRY..... ☒

C. ADHESIVE ANCHORS IN CONCRETE & MASONRY ..... ☒

6. STRUCTURAL STEEL: ☒

A. MILL REPORTS & IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE) ..... ☒

B. SAMPLING & TESTING ..... ☐

7. APPROVED FABRICATORS: ☒

A. MUST SUBMIT CERTIFICATE OF COMPLIANCE FOR  
OFFSITE FABRICATION SUCH AS STRUCTURAL STEEL,  
PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC. .... ☒

8. INSPECTORS: ☒

ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY REPRESENTATIVE OF OWNER  
APPROVED INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE  
REQUIREMENTS OF THE STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 24,  
PART 1. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND  
ARE NOT A SUBSTITUTE FOR THE INSPECTIONS BY AN INSPECTION AGENCY. ALL  
TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL  
ENGINEER OF RECORD. THE FINAL REPORT BY THE TESTING AND INSPECTION AGENCIES  
MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED  
PLANS AND DESIGNER'S SPECIFICATIONS.

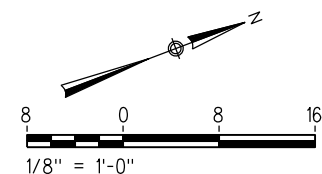
NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE TESTS AND INSPECTIONS ARE PERFORMED.




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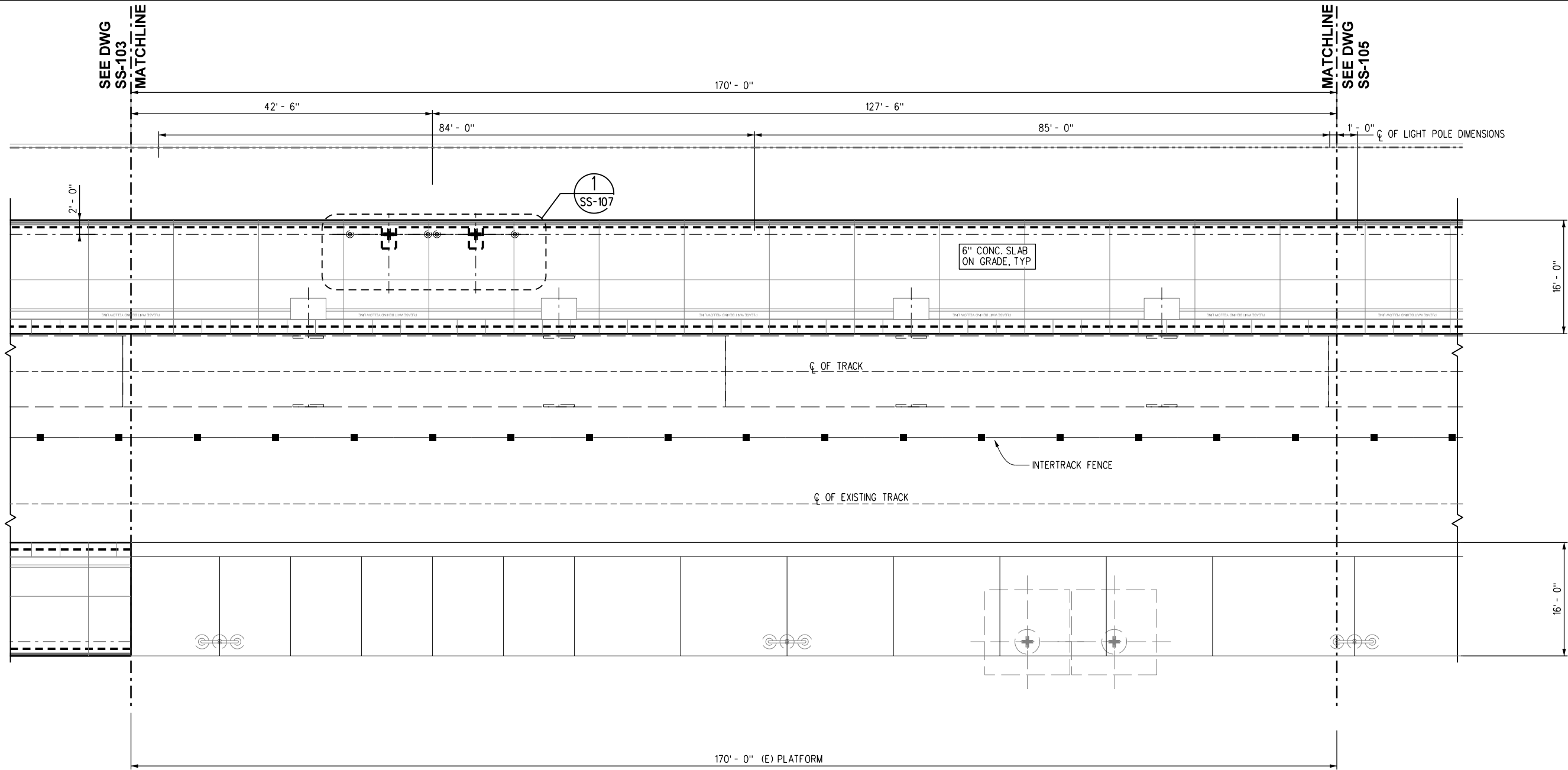
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|                                 |      |            |  | DRAWN BY<br>D. ESTRADA    |  |   | DRAWING NO.<br>SS-102  |  |  |  |                          |  |
|                                 |      |            |  | CHECKED BY<br>R. QUIRK    |  |   | REVISION SHEET NO.   |  |  |  |                          |  |
|                                 |      |            |  | APPROVED BY<br>A. SOKOL   |  |   | 59 OF 71   |  |  |  |                          |  |
|                                 |      |            |  | DATE<br>01-20-2017        |  |   | SCALE<br>NONE  |  |  |  |                          |  |
| REV.                            | DATE | BY<br>SUB. | APP.   |                           |  |   | <div>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</div> |  |  |  |                          |  |
|                                 |      |            |  |                           |  |   | SUBMITTED: _____<br>PROJECT MANAGER  |  | APPROVED: _____  |  |                          |  |



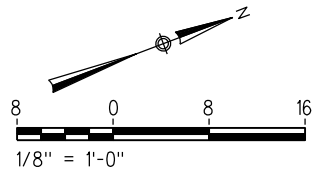


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|  |  |               |                            |  | <div>DRAWN BY</div> <div>D. ESTRADA</div>    |  | <div></div>           | <div>ORANGE COUNTY<br/>TRANSPORTATION<br/>AUTHORITY</div> | <div>ANAHEIM CANYON STATION</div> <div>PLATFORM AND CANOPY STRUCTURAL PLAN</div> <div>SHEET 1 OF 4</div> |  | <div>REVISION</div> <div>SHEET NO.</div> <div>60 OF 71</div>      |  |
| <div>CHECKED BY</div> <div>R. QUIRK</div>  | <div>SUBMITTED: _____</div> <div>PROJECT MANAGER</div> |               | <div>APPROVED: _____</div> |  | <div>SCALE</div> <div>1/8" = 1'-0"</div>     |  |  |  |  |  |   |  |
| <div>APPROVED BY</div> <div>A. SOKOL</div> | <div>DATE</div> <div>01-20-2017</div>                  |               |                            |  |  |  |  |  |  |  |   |  |
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PLATFORM PLAN SECTOR 2 1 SS-104  
1/8" = 1'-0"



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DRAWN BY D. ESTRADA  
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ANAHEIM CANYON STATION  
PLATFORM AND CANOPY STRUCTURAL PLAN  
SHEET 2 OF 4

CONTRACT NO. PS2415-3412  
DRAWING NO. SS-104  
REVISION SHEET NO. 61 OF 71  
SCALE 1/8" = 1'-0"



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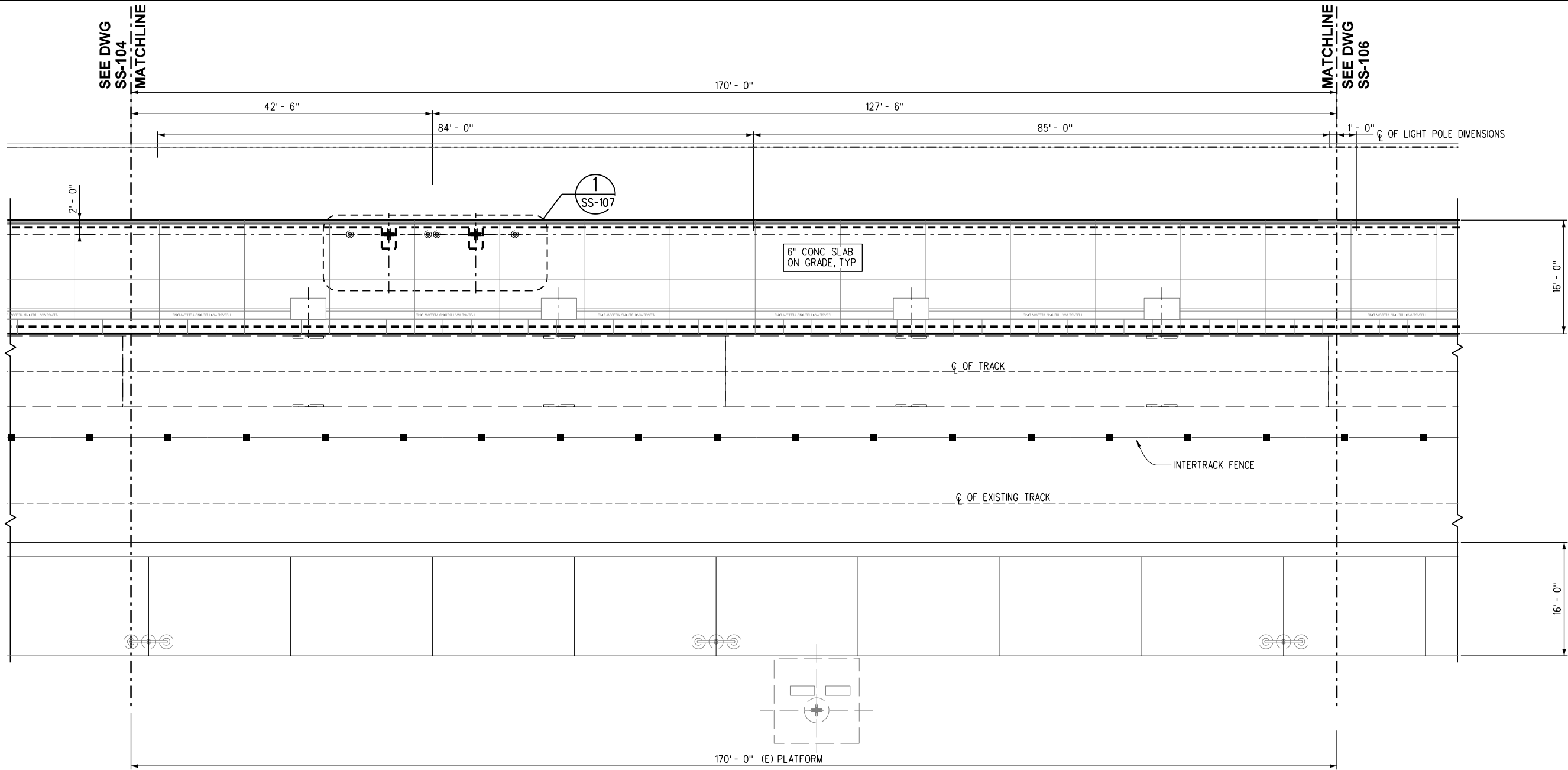
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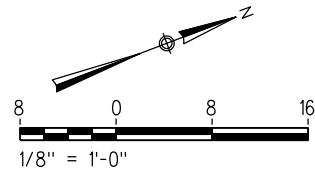
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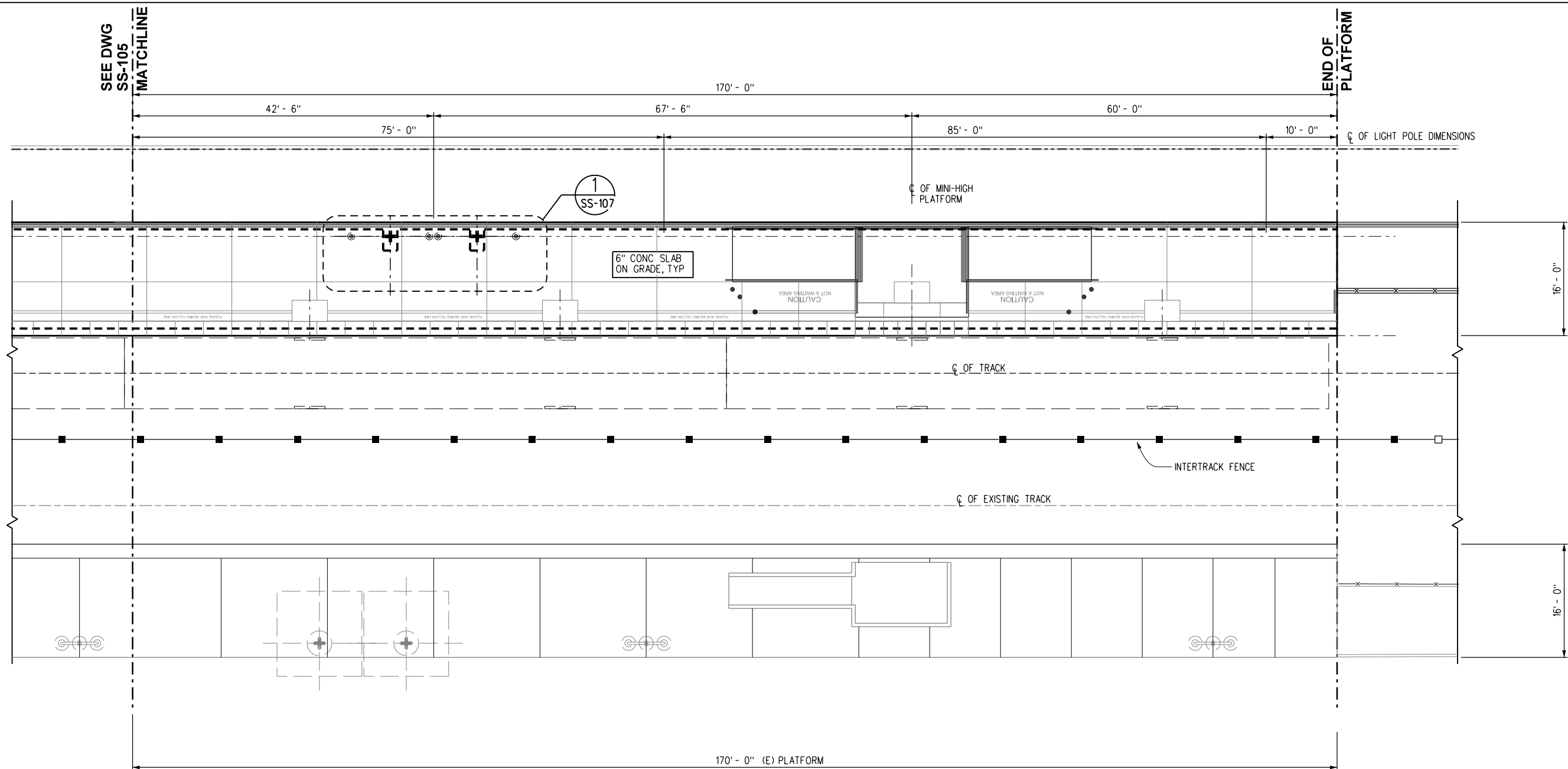
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| REVISION                 | SHEET NO. 62 OF 71 |
| SCALE                    | 1/8" = 1'-0"       |



PLATFORM PLAN SECTOR 3 1 SS-105  
1/8" = 1'-0"



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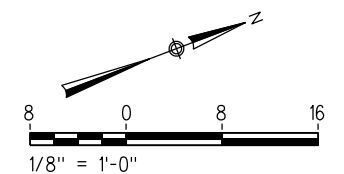


PLATFORM PLAN SECTOR 4

1/8" = 1'-0"

1

SS-106



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| APPROVED BY | A. SOKOL   |
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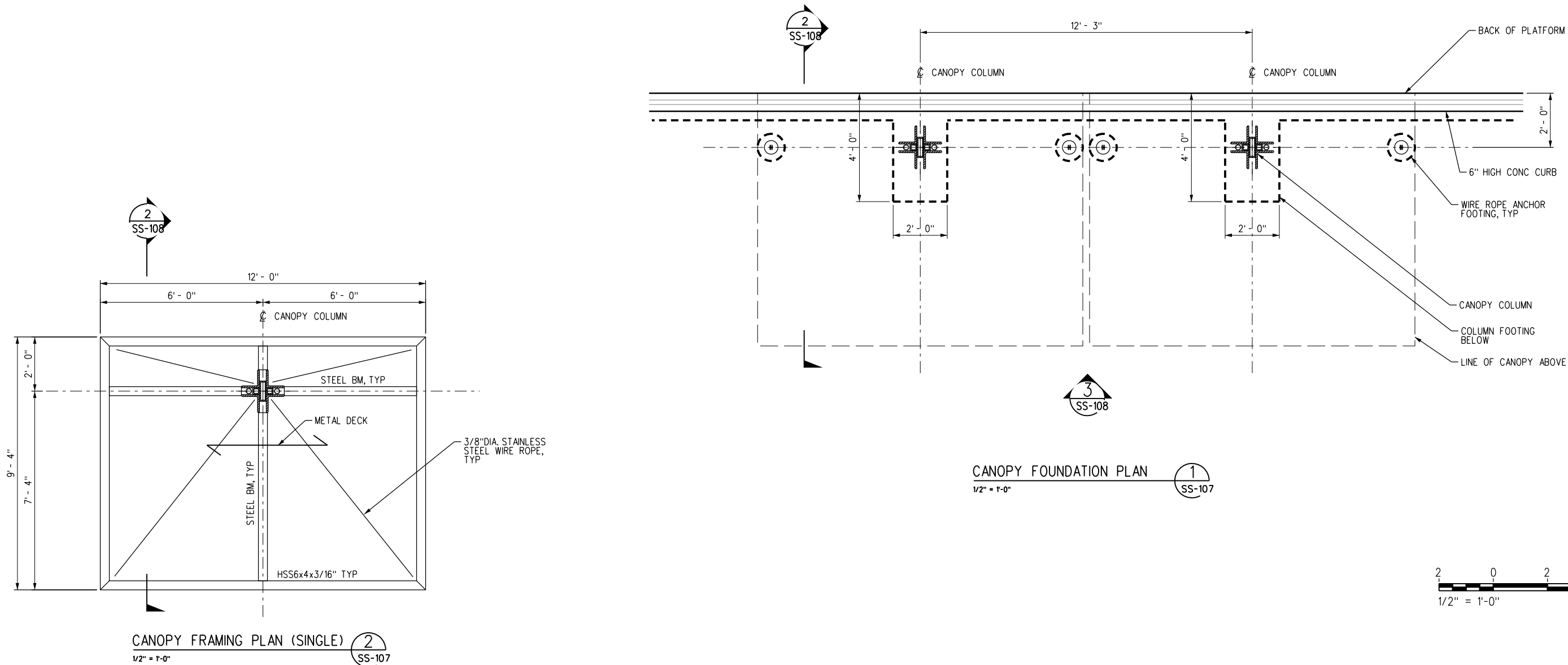


**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
ANAHEIM CANYON STATION  
PLATFORM AND CANOPY STRUCTURAL PLAN  
SHEET 4 OF 4

|                           |                       |
|---------------------------|-----------------------|
| CONTRACT NO. PS2415-3412  |                       |
| DRAWING NO.<br>SS-106     |                       |
| REVISION                  | SHEET NO.<br>63 OF 71 |
| SCALE<br>$1/8" = 1' - 0"$ |                       |



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V. AGARWAL  
DRAWN BY  
D. ESTRADA  
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R. QUIRK  
APPROVED BY  
A. SOKOL  
DATE  
01-20-2017

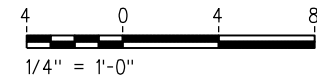
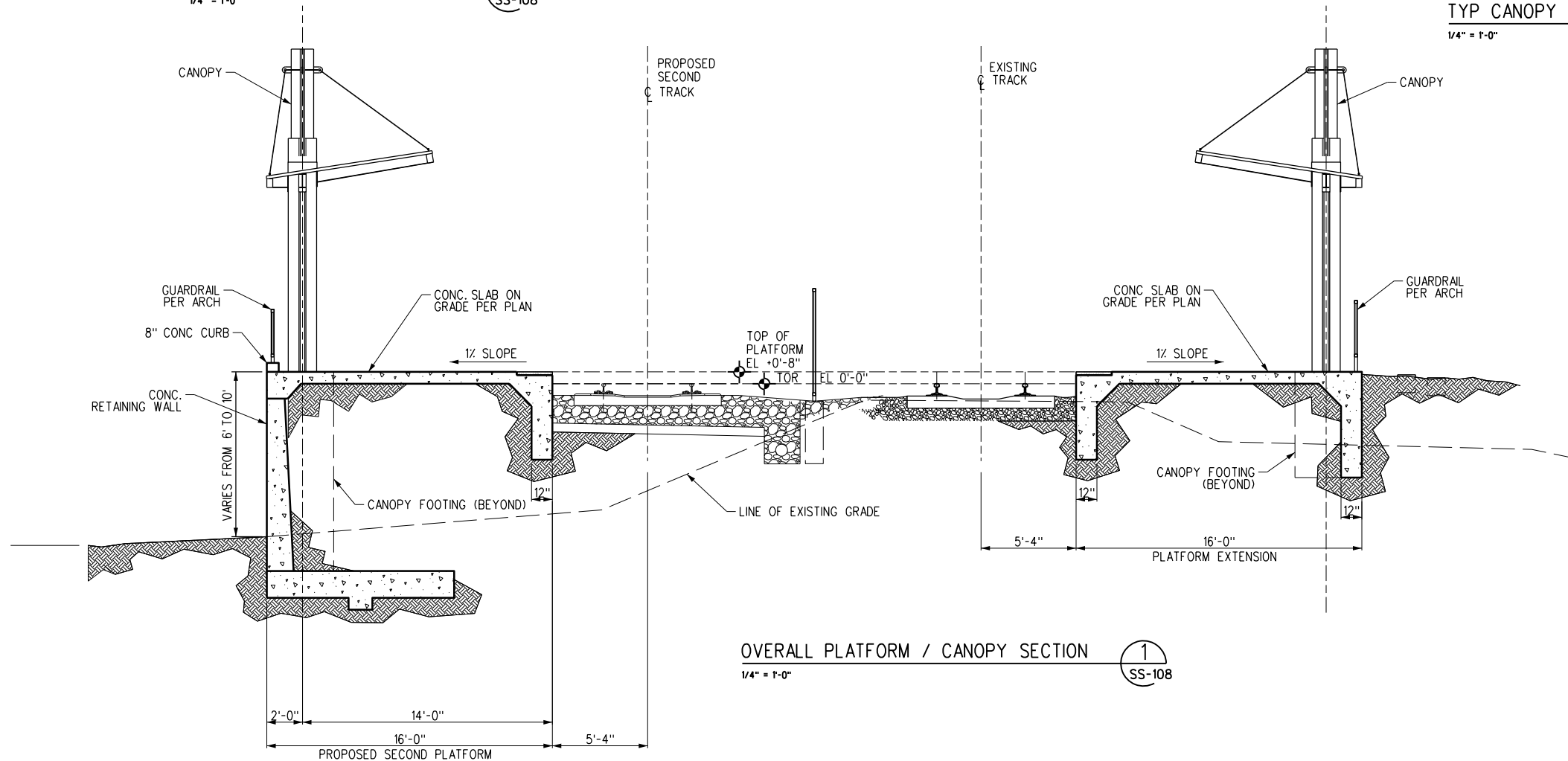
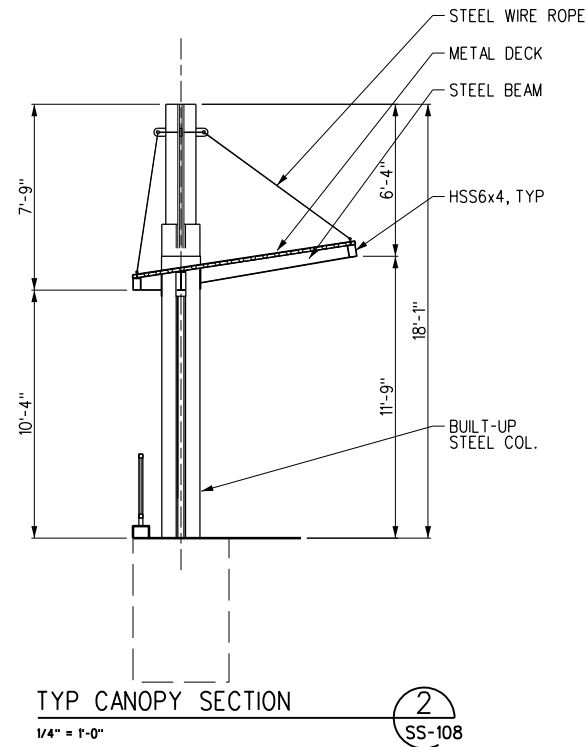
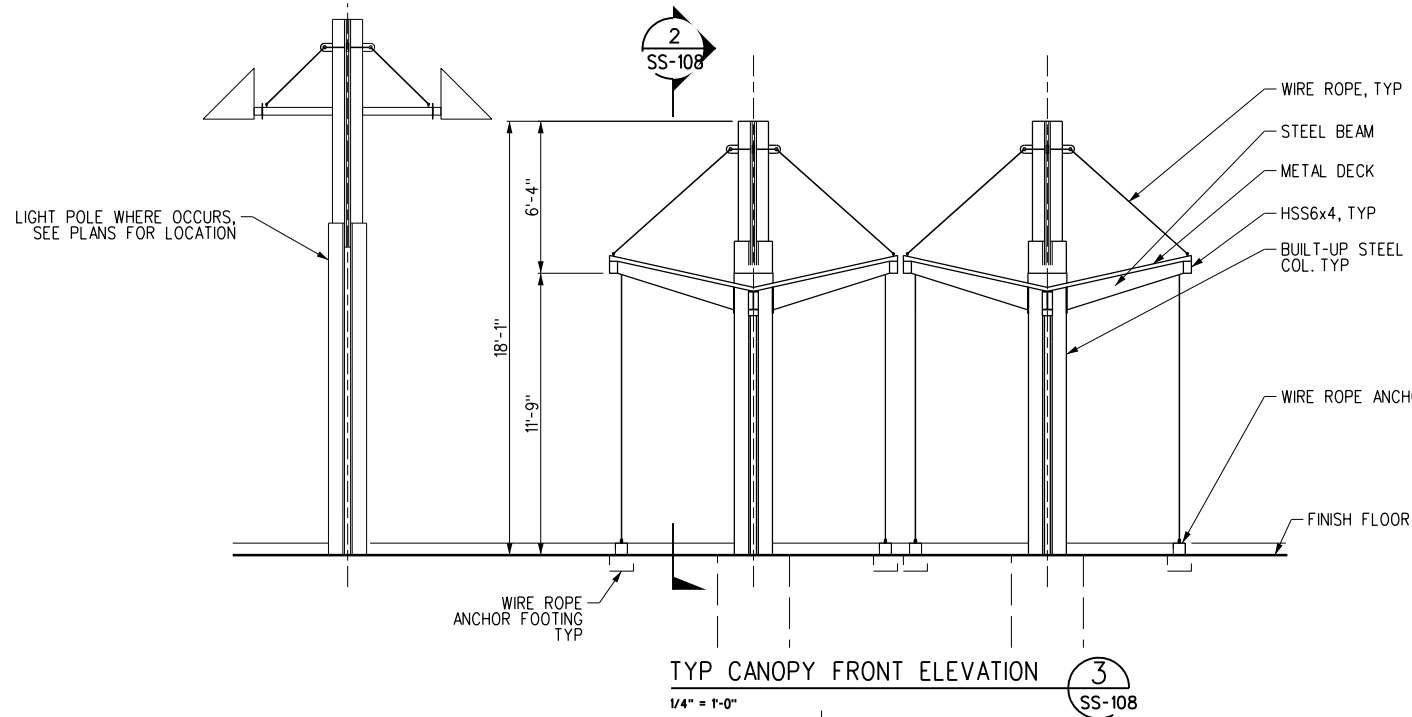
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PLATFORM CANOPY STRUCTURAL PLAN

CONTRACT NO. PS2415-3412  
DRAWING NO. SS-107  
REVISION SHEET NO. 64 OF 71  
SCALE 1/2" = 1'-0"

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D. ESTRADA  
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**ANAHEIM CANYON  
METROLINK STATION PROJECT**

ANAHEIM CANYON STATION  
PLATFORM CANOPY  
STRUCTURAL SECTIONS & ELEVATIONS

CONTRACT NO. PS2415-3412  
DRAWING NO. SS-108  
REVISION SHEET NO. 65 OF 71  
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SINGLE LINE DIAGRAM SYMBOLS

POWER SYMBOLS

GENERAL NOTES

ABBREVIATIONS

|  |  |
|--|--|
|  | CIRCUIT BREAKER, "AF" - FRAME AMPS, "AT" - TRIP AMPS                 |
|  | FUSE DISCONNECT SWITCH, 30A UNO "AS" - SWITCH AMPS, "AF" - FUSE AMPS |
|  | DRAW-OUT TYPE CIRCUIT BREAKER, "AFR" - FRAME AMPS, "AT" - TRIP AMPS  |
|  | POWER TRANSFORMER, RATING AS SHOWN ON PLAN                           |
|  | CURRENT TRANSFORMER  |
|  | GROUND FAULT PROTECTION  |
|  | GROUND WIRE  |
|  | MOTOR WITH FLEXIBLE CONDUIT CONNECTION.                              |
|  | KILOWATT-HOUR METER SOCKET PER SERVICE COMPANY REQUIREMENT           |

LIGHTING SYMBOLS

|  |   |
|--|---|
|  | 2-LAMP FLUORESCENT CEILING MOUNTED LIGHTING FIXTURE PER SCHEDULE  |
|  | 1-LAMP FLUORESCENT CEILING MOUNTED LIGHTING FIXTURE PER SCHEDULE  |
|  | POLE MOUNTED LIGHTING FIXTURE ON PLATFORM SINGLE LUMINAIRE. RATING AS SHOWN ON PLAN.  |
|  | POLE MOUNTED LIGHTING FIXTURE ON PARKING LOT SINGLE LUMINAIRE. RATING AS SHOWN ON PLAN.   |
|  | POLE MOUNTED LIGHTING FIXTURE ON PARKING LOT BACK TO BACK. RATING AS SHOWN ON PLAN  |
|  | POLE MOUNTED LIGHTING FIXTURE ON LAYOVER FACILITY PLATFORM. RATING AS SHOWN ON PLAN.  |
|  | TOGGLE SWITCH 120/277V 20A SINGLE POLE SINGLE THROW SWITCHING, OS = OCCUPANCY SENSOR, M = MANUAL STARTER WITH THERMAL OVERLOAD RELAY MOUNTED +4'-0" AFF         |
|  | LIGHTING PANEL. RATING AS SHOWN ON SCHEDULE AND DIAGRAM   |
|  | LIGHTING FIXTURE DESIGNATION, SEE LIGHTING FIXTURE SCHEDULE. LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE, NUMBER INDICATES TOTAL INPUT WATTS PER FIXTURE |
|  | ROADWAY TYPE POLE MOUNTED LIGHTING FIXTURE PER SCHEDULE   |

COMMUNICATION SYMBOLS

|  |   |
|--|---|
|  | COMMUNICATION PULLBOX PER SCRR STANDARD |
|--|---|

|  |   |
|--|---|
|  | JUNCTION BOX  |
|  | RECEPTACLE DUPLEX 3-WIRE GROUNDING TYPE, 20AMP, 125VAC WALL MOUNTED AT 15" AFF UNO, GFCI TYPE                                     |
|  | RECEPTACLE DUPLEX 3-WIRE GROUNDING TYPE, 20AMP, 125VAC WALL MOUNTED AT 15" AFF UNO  |
|  | POWER PANEL SURFACE MOUNTED   |
|  | LIGHTING PANEL SURFACE MOUNTED  |
|  | EMBEDDED, OR UNDERGROUND CONDUIT  |
|  | CONDUIT AND WIRE HOMERUN TO PANEL & CIRCUITS NOTED  |
|  | CONDUIT CONCEALED, OR IN CEILING SPACE  |
|  | 2*12 3/4"C  |
|  | 6*12 1"C  |
|  | 3*12 3/4"C  |
|  | 7*12 1"C  |
|  | 4*12 3/4"C  |
|  | 8*12 1"C  |
|  | 5*12 3/4"C  |
|  | 9*12 1"C  |
|  | *10 OR OTHER AWG ADJACENT TO HASHMARKS INDICATES A WIRE SIZE OTHER THAN #12AWG SEE NEC FOR MINIMUM CONDUIT SIZES, ANNEX C-TABLES. |
|  | FEEDER NAME. XXX DENOTES LETTERS FOR FEEDER TAG DESIGNATION   |
|  | POWER EQUIPMENT NAME. XXX DENOTES LETTERS FOR EQUIPMENT TAG DESIGNATION   |
|  | THERMOSTAT, BY OTHERS   |
|  | GROUND ROD IN WELL  |
|  | ELECTRICAL PULLBOX PER SCRR STANDARD  |

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY ADDITIONAL REQUIREMENTS AND COORDINATION.
- CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUNDS DRAW UP TIGHT WITH CONDUIT COUPLINGS.
- LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.
- COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE.
- PROVIDE PULL BOXES AND MANHOLES AS INDICATED AND WHENEVER NECESSARY TO FACILITATE CABLE PULL AND COORDINATE EXACT LOCATIONS WITH OTHER TRADES.
- FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE EXACT LOCATIONS WITH OTHER TRADES.
- SUPPORT PANEL, JUNCTION AND PULL BOXES WITH NO WEIGHT BEARING ON CONDUITS.
- SUPPLEMENTARY JUNCTION AND PULL BOXES IN ADDITION TO THE INDICATED ON THE CONTRACT DRAWINGS AND AS REQUIRED BY APPLICABLE CODES, PROVIDE AND INSTALL SUPPLEMENTARY JUNCTION AND PULL BOXES AS FOLLOWS:
  - WHEN REQUIRED TO FACILITATE INSTALLATION OF WIRING.
  - AT EVERY THIRD 90 DEGREE TURN.
  - AT INTERVALS NOT EXCEEDING 100 FEET FOR RACEWAY SIZES OVER 1 INCH.
- ALL RECEPTACLES INDICATED "GFI" SHALL BE GROUND FAULT INTERRUPTER TYPE.
- ALL CONDUITS SHALL BE PVC MINIMUM 2'-0" BELOW GRADE.
- ALL LIGHT POLE IN PARKING AREAS SHALL BE PROVIDED WITH 2-2"C/O WITH PULL WIRE (WIRING BY OTHERS) FOR CCTV SYSTEM FUTURE USE. ROUTE CONDUITS TO COMMUNICATION SHELTER.
- PROVIDE 12" SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS.
- PROVIDE 6' LONG PIGTAIL AT EACH TVM LOCATION TO ALLOW CONNECTION OF (3) CONDUCTORS TO EQUIPMENT.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL WIRE.
- ALL CONDUCTORS RUNNING FROM STATION POWER PANEL TO EACH TVM LOCATIONS SHALL HAVE XHHW INSULATION.
- INSTALLATION OF CABLES IN D/T CONDUIT SYSTEM SHALL BE BY SCRRA.
- REFER TO SCRRA ENGINEERING STANDARDS ES\*1103 AND ES\*3001 FOR ABBREVIATIONS, LEGEND AND NOTES.
- PROVIDE NEMA 3R ENCLOSURE TO ALL PANELBOARDS/LIGHTING CONTROL PANELS INSTALLED OUTDOORS.
- PROVIDE 4" HOUSEKEEPING PAD FOR ALL ELECTRICAL FLOOR MOUNTED EQUIPMENT. COORDINATE DIMENSIONS WITH ACTUAL SIZE SELECTED.
- ELECTRICAL AND COMMUNICATION PULL BOXES AT LIGHT POLES SHALL BE INSTALLED AT 6'-0" ON CENTER MINIMUM FROM THE CENTER OF TREE WHERE OCCURS PER LANDSCAPE DRAWINGS. COORDINATE WITH LANDSCAPE PRIOR TO INSTALLATION. WHERE INSTALLED NEAR CONSTRUCTION AND EXPANSION JOINTS, A MINIMUM CLEAR DISTANCE OF 12" FROM THE EDGE OF PULL BOX SHALL BE MAINTAINED.
- WHEREVER POSSIBLE, CONDUITS SHALL BE ROUTED IN LANDSCAPE OR UNDER NON-PAVED AREAS AND AS CLOSE AS POSSIBLE TO ONE ANOTHER WITHIN THE SAME TRENCH TO MINIMIZE PAVEMENT DAMAGE WHEN REPAIRS ARE REQUIRED.
- ALL UNDERGROUND CONDUITS SHALL BE BURIED 24" MINIMUM MEASURED BETWEEN A POINT ON THE TOP SURFACE OF ANY CONDUIT/RACEWAY AND THE TOP SURFACE OF FINISHED GRADE, CONCRETE OR SIMILAR COVER UNLESS OTHERWISE NOTED. AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC SHALL HAVE A 3" MINIMUM CONCRETE ENCASEMENT. REFER TO CIVIL PAVING PLAN FOR ADDITIONAL INFORMATION.
- ALL UNDERGROUND CONDUITS FOR CCTV SYSTEM USE SHALL BE ROUTED TO COMMUNICATION BUILDING FOR FINAL TERMINATION UNLESS OTHERWISE NOTED. COORDINATE WITH OTHER TRADES FOR EXACT ROUTING PRIOR TO ROUGH-IN.
- ALL ELECTRICAL AND COMMUNICATION PULL BOXES SHALL HAVE THE FOLLOWING LOAD RATINGS:
  - UNITS LOCATED IN ROADWAYS, PARKING LOTS AND OTHER DELIBERATE TRAFFIC PATHS: PRECAST CONCRETE AASHTO HB 17, H-20 STRUCTURAL LOAD RATING.
  - UNITS IN PLATFORM AND OFF ROADWAY LOCATIONS SUBJECT TO OCCASIONAL NON-DELIBERATE LOADING BY HEAVY VEHICLES: POLYMER CONCRETE, SCTE 77 TIER 15 STRUCTURAL LOAD RATING.
  - UNITS IN SIDEWALK WITH A SAFETY FACTOR FOR NON-DELIBRATE LOADING BY VEHICLES: POLYMER CONCRETE UNITS, SCTE 77 TIER 8 HEAVY DUTY FIBERGLASS UNITS WITH POLYMER CONCRETE FRAME AND COVER, SCTE 77 TIER 8 STRUCTURAL LOAD RATING.
  - UNITS SUBJECT TO LIGHT DUTY PEDESTRIAN TRAFFIC ONLY: FIBERGLASS REINFORCED POLYESTER RESIN, STRUCTURALLY TESTED ACCORDING TO SCTE 77 WITH 3000 LBF VERTICAL LOADING.

|        |   |
|--------|---|
| A, AMP | AMPERE                                  |
| AFF    | ABOVE FINISHED FLOOR                    |
| AFR    | AMPERE FRAME                            |
| AIC    | AMPERES INTERRUPTING CAPACITY           |
| AT     | AMPERE TRIP                             |
| C      | CONDUIT                                 |
| CBKR   | CIRCUIT BREAKER                         |
| CCTV   | CLOSED CIRCUIT TELEVISION               |
| CKT    | CIRCUIT                                 |
| CPB    | COMMUNICATION PULL BOX                  |
| CL     | CENTER LINE                             |
| C/O    | CONDUIT ONLY                            |
| D/T    | DATA ACQUISITION/TELEPHONE              |
| DVM    | DEBIT CARD VALIDATOR MACHINE            |
| EMP    | EMERGENCY MANAGEMENT PANEL              |
| EPB    | ELECTRICAL PULL BOX                     |
| EPIS   | ELECTRONIC PASSENGER INFORMATION SYSTEM |
| GFI    | GROUND FAULT INTERRUPTER                |
| G      | GROUND, GROUNDING                       |
| GRS    | GALVANIZED RIGID STEEL CONDUIT          |
| HH     | HANDHOLE                                |
| HP     | HORSEPOWER                              |
| HZ     | HERTZ                                   |
| IMC    | INTERMEDIATE METAL CONDUIT              |
| KVA    | KILOVOLT AMPERE                         |
| LC     | LOAD CENTER                             |
| LED    | LIGHT EMMITTING DIODE MESSAGE SIGN      |
| LP     | LIGHTING PANEL                          |
| MH     | MANHOLE                                 |
| MTTV   | MULTI-TRIP TICKET VALIDATOR MACHINE     |
| MTG    | MOUNTING                                |
| NIC    | NOT IN CONTRACT                         |
| P      | POWER                                   |
| PA     | PUBLIC ADDRESS                          |
| PP     | POWER PANEL                             |
| PVC    | POLYVINYL CHLORIDE                      |
| PV     | PHOTOVOLTAC                             |
| SDBC   | SOFT DRAWN BARE COPPER                  |
| SW     | SWITCH                                  |
| SWGR   | SWITCHGEAR                              |
| THK    | THICK                                   |
| TVM    | TICKET VENDING MACHINE                  |
| TYP    | TYPICAL                                 |
| UNO    | UNLESS NOTED OTHERWISE                  |
| V      | VOLT                                    |
| W      | WATT                                    |
| WP     | WEATHERPROOF                            |
| WPC    | WAYSIDE POWER CABINET                   |
| XFMR   | TRANSFORMER                             |

**NOTE:**  
ALL SYMBOLS SHOWN ARE NOT NECESSARILY  
USED ON THIS PROJECT

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BY SUB APP.

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DESIGNED BY  
R. FEE

DRAWN BY  
M. MAMAWAL

CHECKED BY  
R. QUIRK

APPROVED BY  
A. SOKOL

DATE  
01-20-2017

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SUBMITTED: \_\_\_\_\_  
PROJECT MANAGER

APPROVED: \_\_\_\_\_

ANAHEIM CANYON  
METROLINK STATION PROJECT  
ANAHEIM CANYON STATION  
ELECTRICAL GENERAL NOTES  
SYMBOLS AND ABBREVIATIONS

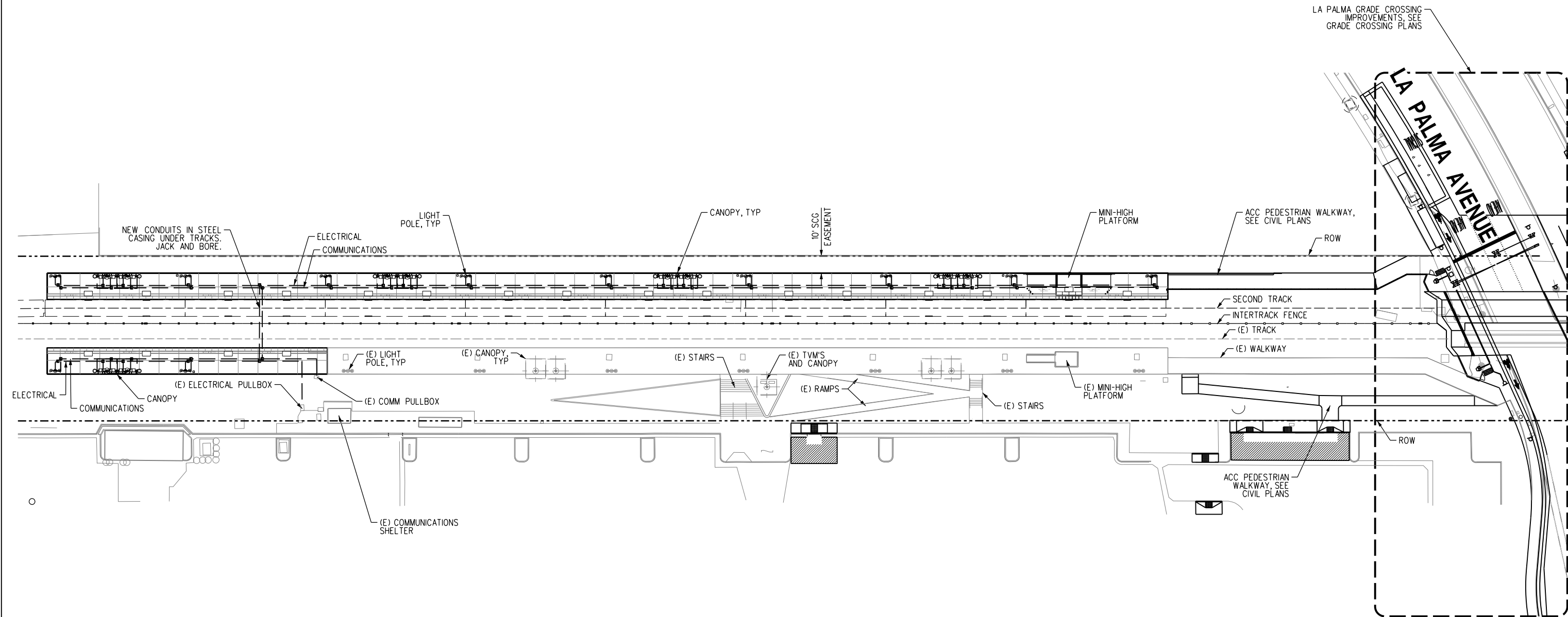
CONTRACT NO. PS2415-3412

DRAWING NO. ES-101

REVISION SHEET NO. 66 OF 71

SCALE NONE

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|-------------|------------|
| DESIGNED BY | R. FEE     |
| DRAWN BY    | M. MAMAWAL |
| CHECKED BY  | R. QUIRK   |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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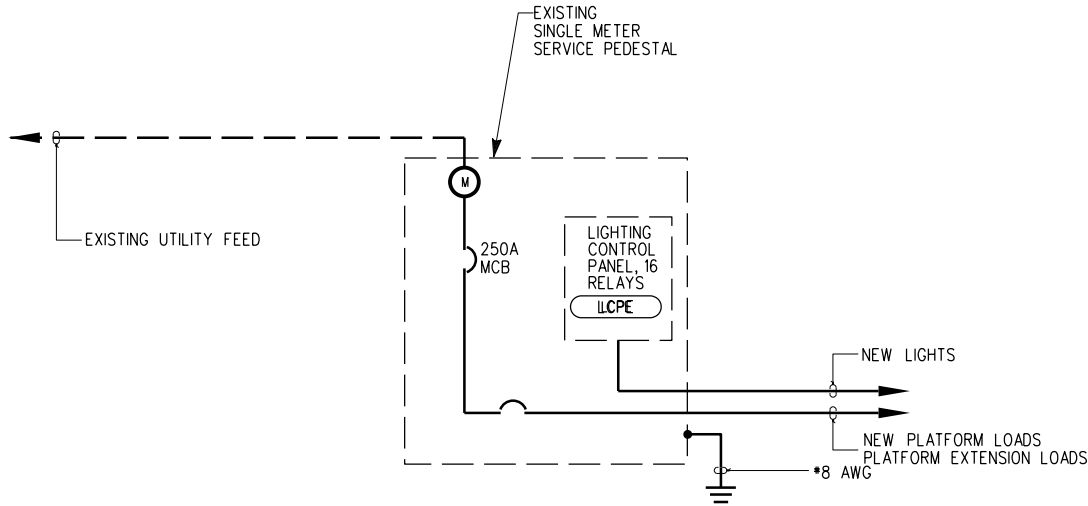
**ANAHEIM CANYON  
METROLINK STATION PROJECT**

ANAHEIM CANYON STATION  
ELECTRICAL SITE PLAN

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| CONTRACT NO. | PS2415-3412 |
| DRAWING NO.  | ES-102      |
| REVISION     | SHEET NO.   |
|              | 67 OF 71    |
| SCALE        | 1" = 30'-0" |



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STATION SINGLE LINE  
SCALE: NONE

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ES-111

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| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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ANAHEIM CANYON  
METROLINK STATION PROJECT  
ANAHEIM CANYON STATION  
STATION SINGLE LINE DIAGRAM  
AND PANEL SCHEDULE

|              |             |
|--------------|-------------|
| CONTRACT NO. | PS2415-3412 |
| DRAWING NO.  | ES-111      |
| REVISION     | SHEET NO.   |
|              | 68 OF 71    |
| SCALE        | NONE        |

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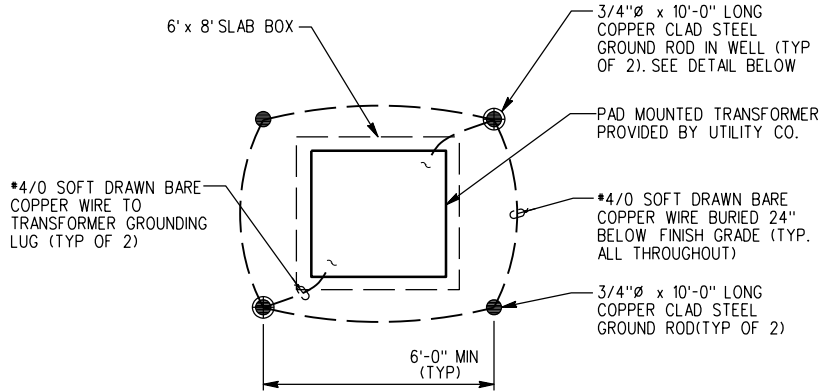
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PROJECT MANAGER

APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**

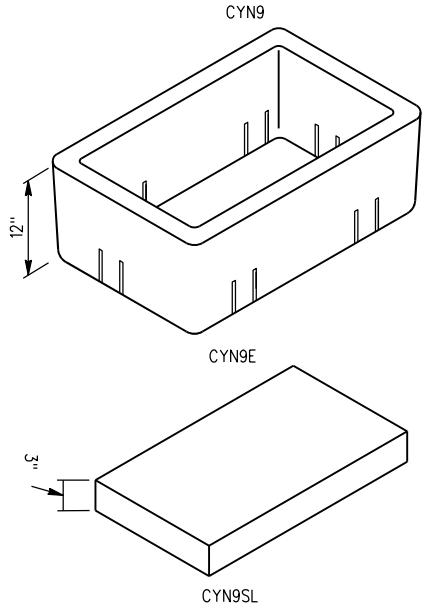
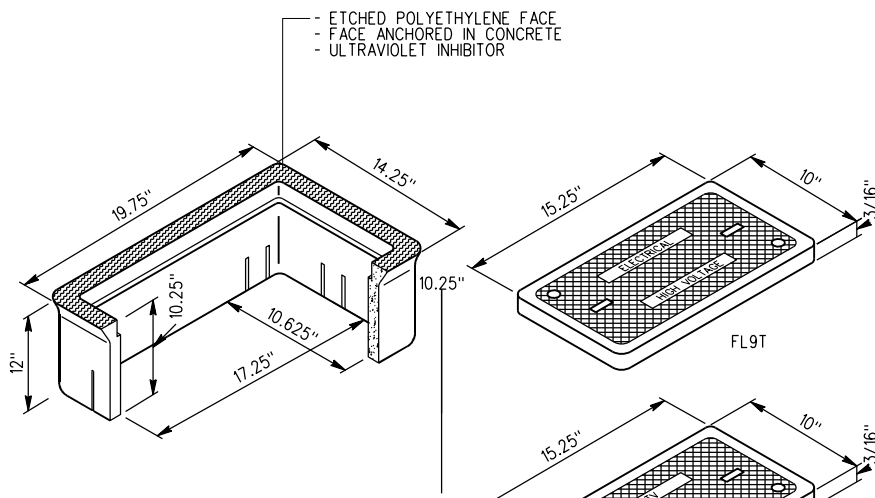
ANAHEIM CANYON STATION  
ELECTRICAL DETAILS

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| CONTRACT NO. PS2415-3412 |                       |
| DRAWING NO. ES-121       |                       |
| REVISION                 | SHEET NO.<br>69 OF 71 |
| SCALE<br>NONE            |                       |



TYPICAL TRANSFORMER  
GROUNDING DETAIL  
SCALE: NONE

2  
ES-121



NOTE:  
DIMENSIONS SHOWN ARE FOR REFERENCE  
ONLY. VERIFY WITH MANUFACTURER FOR  
ACTUAL DIMENSIONS PRIOR TO INSTALLATION.

A HIGH DENSITY REINFORCED CONCRETE  
PULL AND JUNCTION BOX WITH END AND  
SIDE KNOCKOUTS. NON-SETTLING  
SHOULDERS MAINTAIN GRADE AND  
FACILITATE BACKFILLING.  
DESIGN LOAD: PEDESTRIAN TRAFFIC

| CATALOG NUMBER | PRODUCT   | DESCRIPTION                           | APPROX. WT. (LBS) |
|----------------|-----------|---------------------------------------|-------------------|
| CYN9           | BOX       | REINFORCED CONCRETE                   | 85                |
| FL9T           | LID       | NONMETALLIC LID W/HOLD DOWN BOLTS     | 6                 |
| CYN9-61J       | COVER     | STEEL CHECKER PLATE W/HOLD DOWN BOLTS | 19                |
| CYN9E          | EXTENSION | 12" HIGH REINFORCED CONCRETE          | 82                |
| CYN9SL         | SLAB      | REINFORCED CONCRETE                   | 30                |

ELECTRICAL/COMMUNICATION  
UNDERGROUND PULL BOX  
SCALE: NONE

1  
ES-121



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| DESIGNED BY | J. MORALES |
| DRAWN BY    | J. MORALES |
| CHECKED BY  | L. YANG    |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

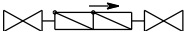






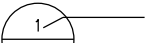














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| LEGEND  | DESCRIPTION           | LEGEND  | DESCRIPTION                            |
|---|-----------------------|---|--|
| CW  | COLD WATER PIPING     |  | BACKFLOW PREVENTER (FLOW ARROW SHOWN)  |
| SS  | SANITARY SEWER PIPING |  | BALL VALVE                             |
|  | CONNECTION FROM ABOVE |  | CAP ON END OF PIPE                     |
|  | CONNECTION TO BELOW   |  | CHECK VALVE (FLOW ARROW SHOWN)         |
|  | PIPE TURNING DOWN     |  | DETAIL NUMBER                          |
|  | PIPE TURNING UP       |  | DRAWING NUMBER                         |
| AD  | AREA DRAIN            |  | DIRECTION OF SLOPE, RISE (R), DROP (D) |
|  | FIRE HYDRANT          |  | DOWNSPOUT (DS)                         |
|  | WATER STATION         |  | EQUIPMENT NAME                         |
|   |                       |  | EQUIPMENT NUMBER                       |
|   |                       |  | FIXTURE TAG                            |
|   |                       |  | GATE VALVE                             |
|   |                       |  | GLOBE VALVE                            |
|   |                       |  | HOSE BIBB                              |
|   |                       |  | POINT OF CONNECTION (POC)              |
|   |                       |  | QUICK DISCONNECT                       |

|          | PLUMBING DRAWING INDEX                            |
|----------|---|
| DWG. NO. | SHEET TITLE                                       |
| PS-101   | PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS |
| PS-111   | PLUMBING SITE PLAN                                |

| ABBREVIATIONS |                      |      |                              |
|---------------|----------------------|------|------------------------------|
| A             | AMP                  | MAX  | MAXIMUM                      |
| ABV           | ABOVE                | MIN  | MINIMUM                      |
| AFF           | ABOVE FINISHED FLOOR | MH   | MANHOLE                      |
| AFG           | ABOVE FINISH GRADE   | NC   | NORMALLY CLOSED              |
| BFP           | BACKFLOW PREVENTER   | NO   | NORMALLY OPEN / NUMBER       |
| CAP           | CAPACITY             | NPW  | NON-POTABLE WATER            |
| CI            | CAST IRON PIPE       | NTS  | NOT TO SCALE                 |
| CO            | CLEAN OUT            | PSI  | POUNDS PER SQUARE INCH       |
| CONT          | CONTINUATION         | PSIG | POUNDS PER SQUARE INCH GAUGE |
| CW            | COLD WATER - POTABLE | RPZ  | REDUCED PRESSURE ZONE        |
| DS            | DOWNSPOUT            | BFP  | BACKFLOW PREVENTER           |
| DWG           | DRAWING              | SD   | STORM DRAIN                  |
| EL            | ELEVATION            | SF   | SQUARE FEET                  |
| FCO           | FLOOR CLEAN OUT      | SOV  | SHUT-OFF VALVE               |
| FD            | FLOOR DRAIN          | TDL  | TOTAL DEVELOPED LENGTH       |
| FT            | FOOT OR FEET         | THRU | THROUGH                      |
| FU            | FIXTURE UNIT         | TOR  | TOP OF RAIL                  |
| GAL           | GALLON(S)            | TYP  | TYPICAL                      |
| GAL. STL.     | GALVANIZED STEEL     | V    | VENT, VOLT                   |
| GPM           | GALLONS PER MINUTE   | VB   | VACUUM BREAKER               |
| GV            | GATE VALVE           | VTR  | VENT THROUGH ROOF            |
| HYD           | HYDRANT              | WHA  | WATER HAMMER ARRESTOR        |
| IE            | INVERT ELEVATION     |      |                              |
| INV           | INVERT               |      |                              |

- PLUMBING NOTES:**
- ALL WORK SHALL CONFORM TO 2013 CALIFORNIA PLUMBING CODE, 2013 CALIFORNIA BUILDING CODE, 2013 TITLE-24, NFPA AND ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS.
  - IN ALL CASES OF CONFLICT BETWEEN DRAWINGS, CODES, AND STANDARDS, THE STRICTEST SHALL GOVERN.
  - CONTRACTOR SHALL PROVIDE MATERIALS, LABOR AND EQUIPMENT SUFFICIENT TO COMPLETE ALL INDICATED WORK.
  - THE PLUMBING WORK SHALL BE COORDINATED WITH THAT OF OTHER DISCIPLINES SO THAT ALL WORK MAY PROCEED IN A TIMELY FASHION.
  - FOR EXACT PLACEMENT OF EACH PLUMBING FIXTURE, REFER TO ARCHITECTURAL DRAWINGS.
  - PROVIDE PIPE MARKERS FOR ALL PIPING AS APPLICABLE AND AS NOTED IN PLUMBING SPECIFICATIONS.
  - SEAL THE SPACING BETWEEN CARRIER PIPE AND SLEEVES FOR ALL PIPE PENETRATIONS THROUGH SLABS, WITH FLEXIBLE WATERPROOF SEALANT, TO PREVENT MIGRATION OF GROUND WATER INTO DRY AREAS.
  - ALL WATER SYSTEMS SHALL BE COLOR CODED (2013 CPC 601.2.2).
  - ALL BACKFLOW PREVENTION DEVICES COMPLY WITH TABLE 6-2, EXCEPT FOR SPECIFIC APPLICATIONS AND PROVISIONS AS STATED IN SECTIONS 603.4 THROUGH 603.4.22 (2013 CPC 603.1).

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
ANAHEIM CANYON STATION  
PLUMBING GENERAL NOTES,  
SYMBOLS AND ABBREVIATIONS

CONTRACT NO. PS2415-3412  
DRAWING NO. PS-101  
REVISION SHEET NO. 70 OF 71  
SCALE NONE

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| DESIGNED BY | J. MORALES |
| DRAWN BY    | J. MORALES |
| CHECKED BY  | L. YANG    |
| APPROVED BY | A. SOKOL   |
| DATE        | 01-20-2017 |

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PROJECT MANAGER

APPROVED: \_\_\_\_\_

**ANAHEIM CANYON  
METROLINK STATION PROJECT**  
ANAHEIM CANYON STATION  
PLUMBING  
SITE PLAN

|              |             |
|--------------|-------------|
| CONTRACT NO. | PS2415-3412 |
| DRAWING NO.  | PS-102      |
| REVISION     | SHEET NO.   |
|              | 71 OF 71    |
| SCALE        | 1" = 30'-0" |

